

THE
ARCHITECT
& BUILDING NEWS

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AUGUST 23, 1951 • VOL. 200 • NO. 4314 • ONE SHILLING WEEKLY

Greatways to Progress

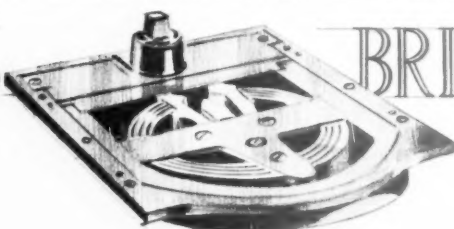


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Foundation Stone laid by H.M. King George V, 24th July, 1913.

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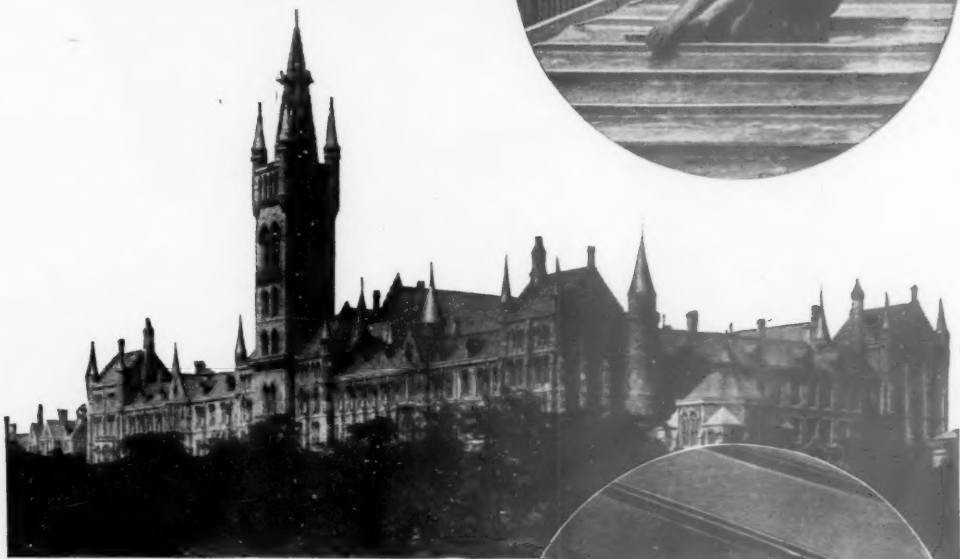
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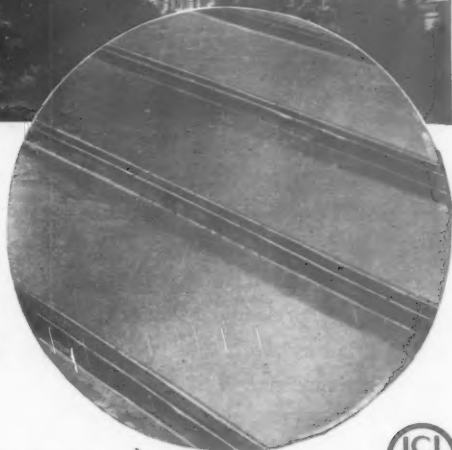
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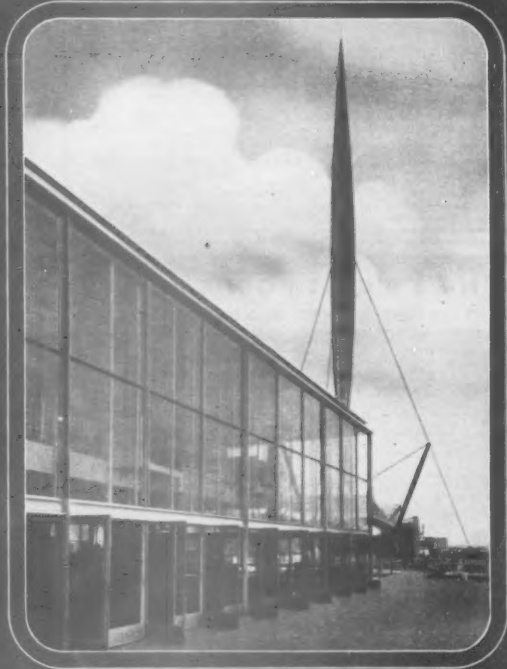
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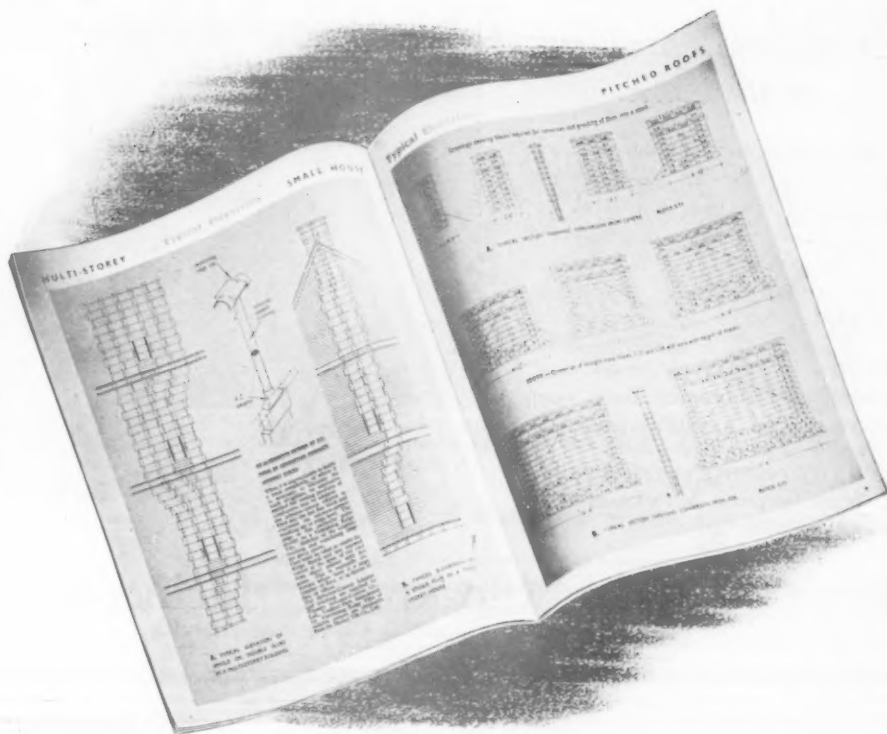
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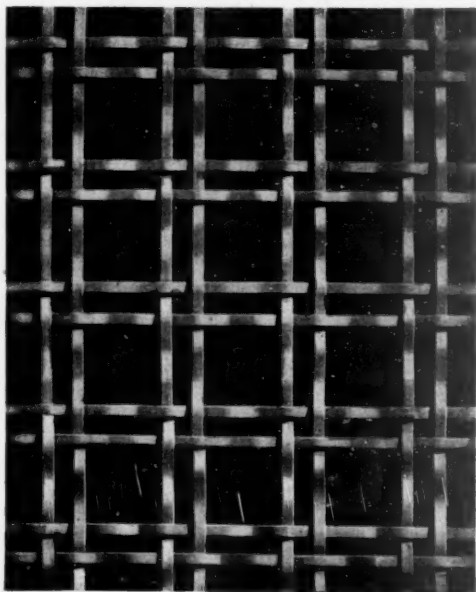
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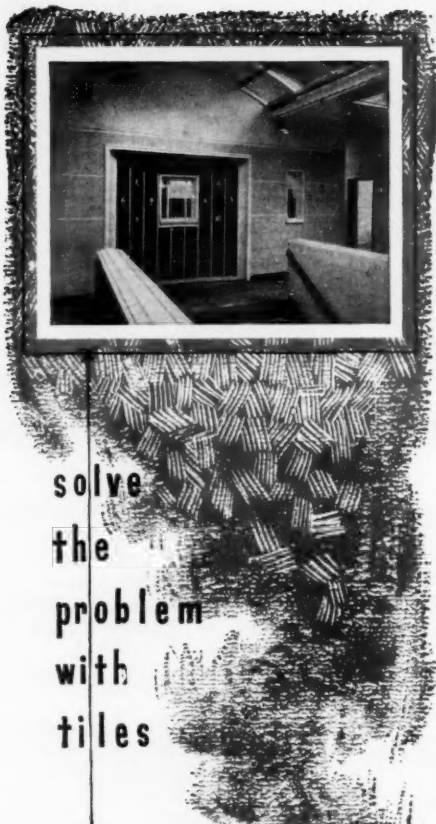
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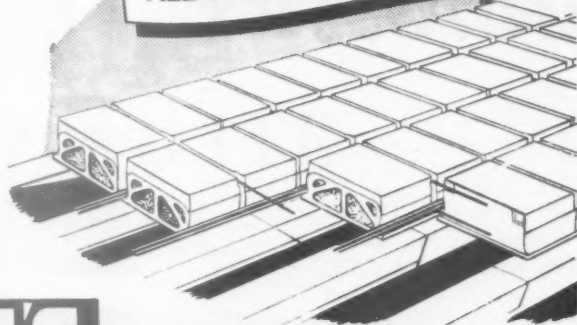
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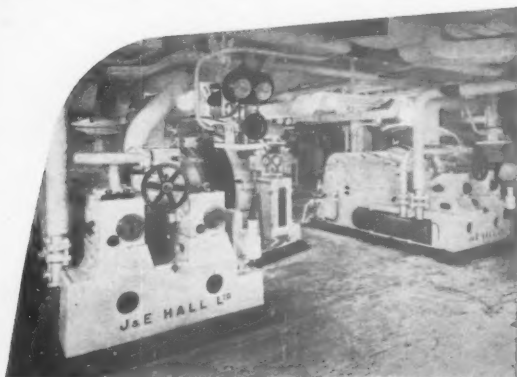
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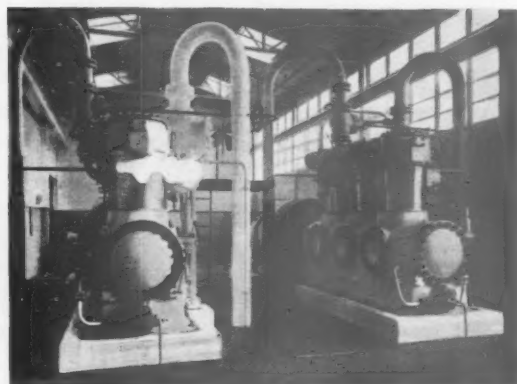
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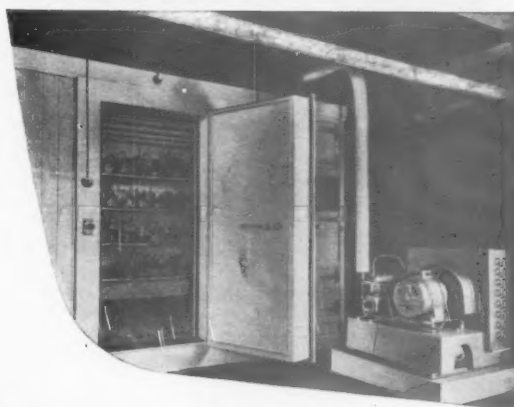
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5

BRINGING COLOUR TO LIFE



IN THE UP-TO-DATE HOTEL

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much one of effective and economical maintenance.

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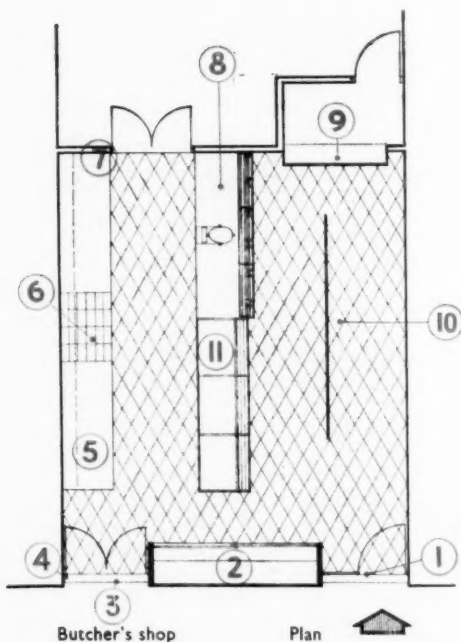
BIRMINGHAM 16

DESIGN FOR

NEW TYPE OF BUTCHER'S SHOP

THE problem of protecting foodstuffs that are displayed and stored in shops is basically an architectural problem, which may be solved by good design and the use of appropriate materials. Here is one solution, which provides new standards of hygiene: a butcher's shop designed by Edward D. Mills, F.R.I.B.A.

Specification of Materials

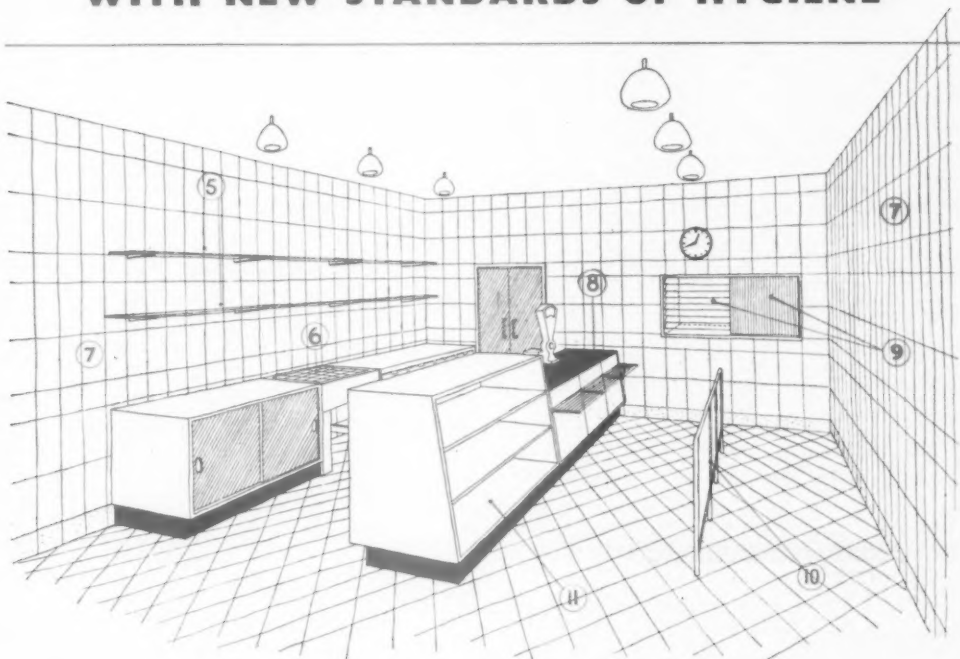


1. Entrance doors, standard frameless "ARMOUR-PLATE" glass door with "ARMOURPLATE" glass side panel.
2. Terrazzo shop window surround glazed with "INSULIGHT" Double Glazing. Base covered with "VITROLITE" laid to fall. Lower sliding doors on shop side, frameless "ARMOURPLATE" glass, upper sliding doors, wood frame with flyscreen mesh infilling.
3. Service doors and shop front stall board faced with vertical hardwood boarding. Hardwood transome glazed with polished plate glass.
4. Reveals to shop front surround faced with white "VITROLITE".
5. "ARMOURPLATE" glass shelves on brackets at 4 foot centres.
6. Hardwood chopping block cutting bench, and storage unit.
7. All walls faced with white "VITROLITE" in standard ashlar sizes.
8. Weighing and wrapping counter. 1" rough cast glass top, timber substructure with "VITROLITE" facing, and tubular metal bag rail.
9. Cashier's desk glazed with "ARMOURPLATE" glass louvres and one-way striped silvered polished plate.
10. Barrier rail in tubular metal with georgian polished wired glass panels.
11. Refrigerated display cabinet faced on top and sides with white "VITROLITE". Front "INSULIGHT" triple glazing unit. Insulated doors at rear, polished plate glass shelves. Refrigeration unit housed under adjoining counter (8).

SCALE 1/8" = 1'-0"

PROTECTION

WITH NEW STANDARDS OF HYGIENE



Above: Interior view of shop. (See plan and specification on opposite page.)

Below: Perspective of Exterior.



Designed by Edward D. Mills, F.R.I.B.A.

Consult the Technical Sales and Service Department at St. Helens, Lancs., or Selwyn House, Cleveland Row, St. James's, London, S.W.1. Telephones: St. Helens 4001, Whitehall 5672-6.

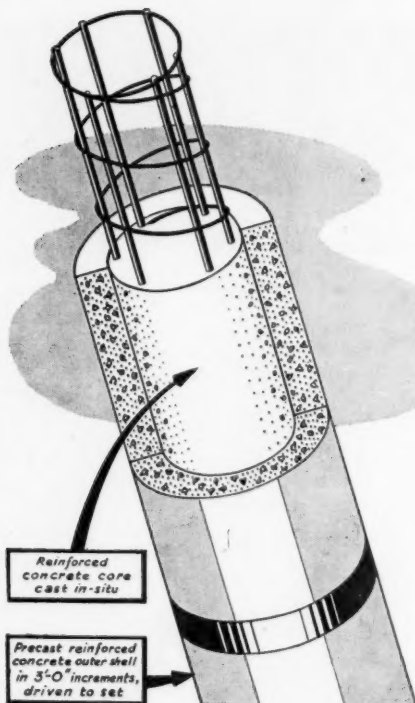
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THE ARCHITECT & BUILDING NEWS

August 23, 1951

The "Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854. The annual subscription, inland and overseas, is £2 15s. 0d. post paid; U.S.A. and Canada \$9.00

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THE SUCCESSFUL COMPETITORS



Mr. Basil Spence, who is 44, was trained at the School of Architecture, Edinburgh College of Art. His winning design is illustrated on pages 192-197.

From 1935-39 while he was a partner in the firm of Rowand Anderson, Paul & Partners, Mr. Spence was responsible for three large houses in Peeblesshire, Lanarkshire and Kippen.

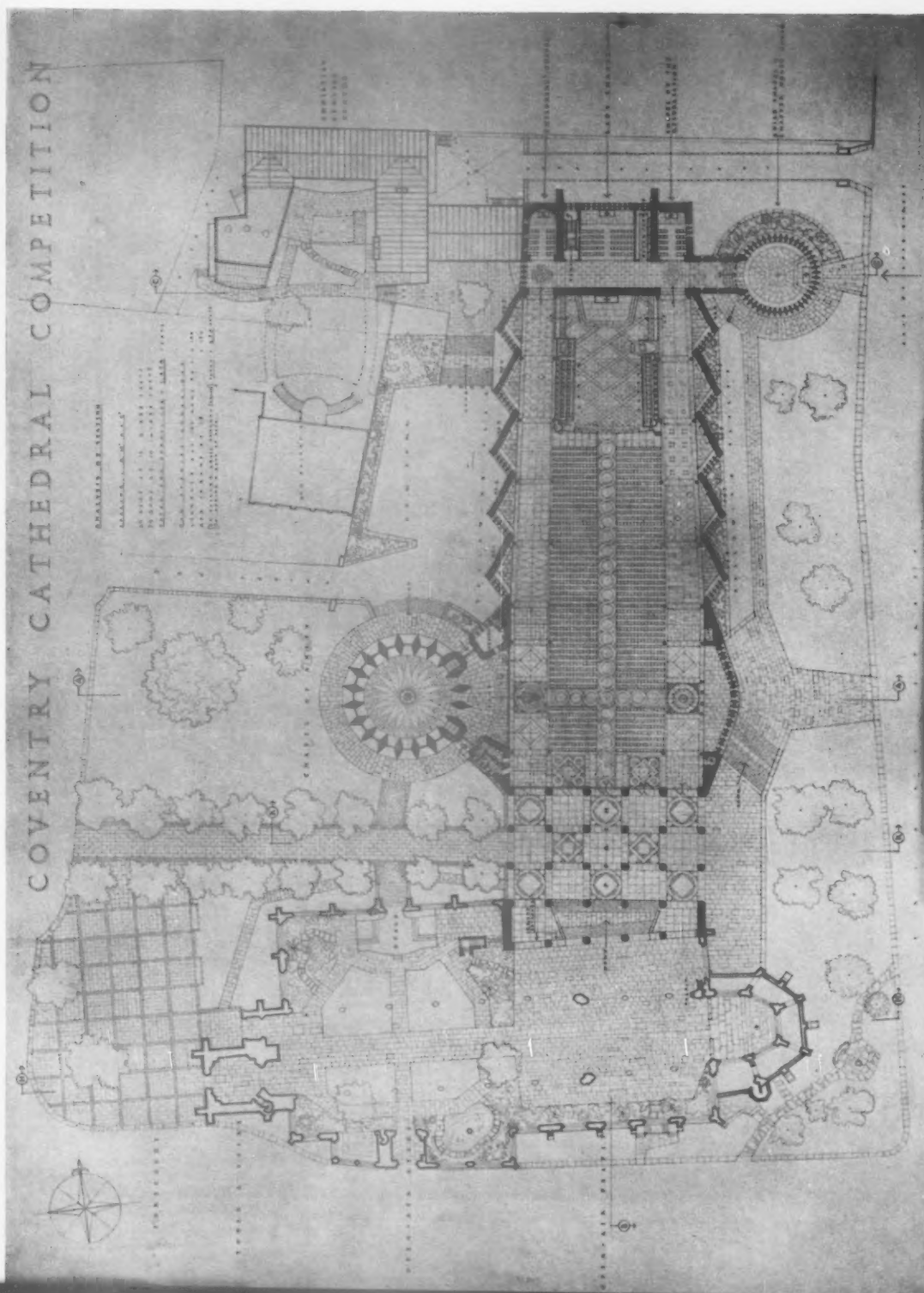
His school work includes Kilsyth School, planned in 1939 and recommenced in 1946; Ecclesfield College Secondary Modern School (at the planning stage); he has designed housing schemes at Dunbar, Selkirk and Sunbury-on-Thames; other important work includes extensions to the Department of Natural Philosophy, Glasgow University, now being built, and Rehabilitation Centre, Bridge of Earn (at the planning stage). In addition, Mr. Spence has an enormous amount of exhibition work to his credit. He was Chief Architect for "Britain Can Make It"; and "Enterprise Scotland," and for B.I.F. exhibitions at Olympia in 1947, 1948, 1949 and 1951, and of "Scottish Industries Exhibition," 1949. He was responsible for the "Sea and Ships" section at the South Bank Exhibition. Mr. Spence was consultant for the first pre-stressed concrete bridge in Scotland, that over the Tweed at Peebles.



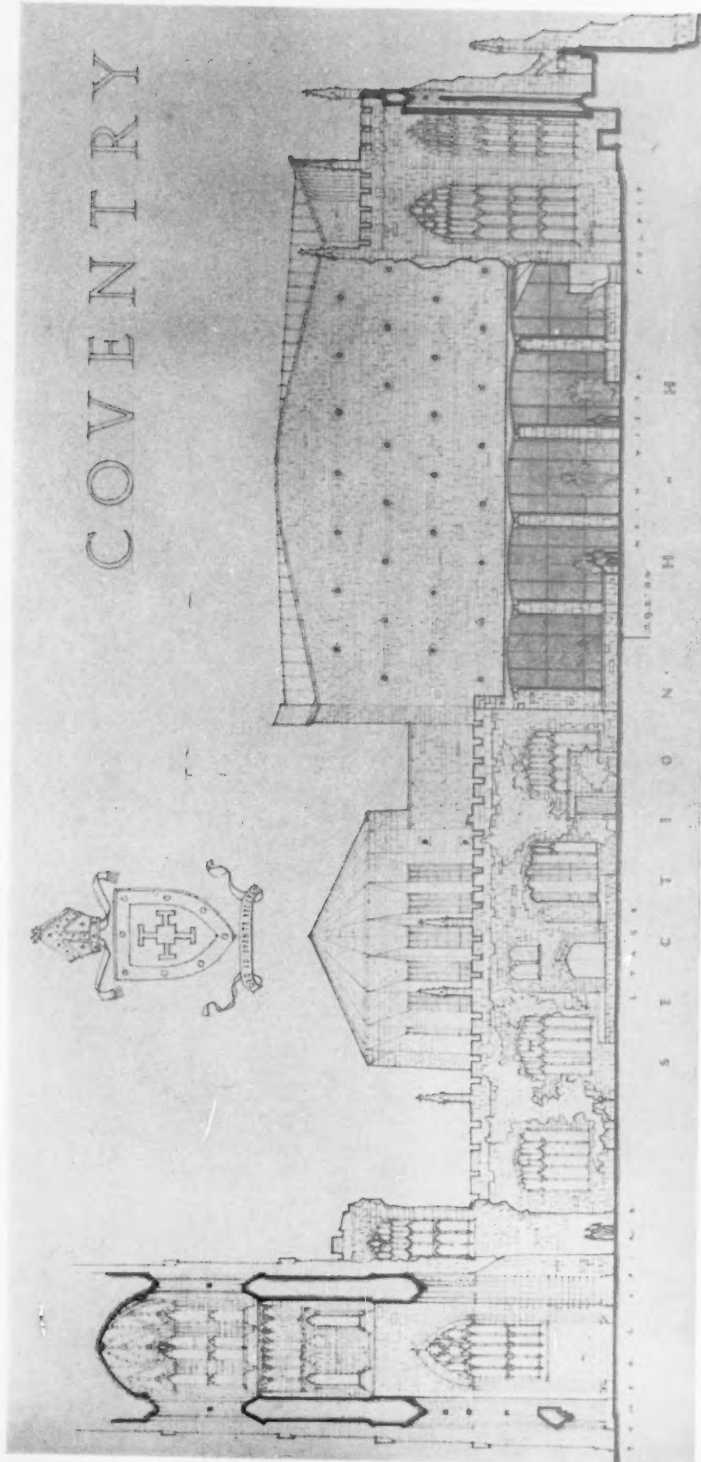
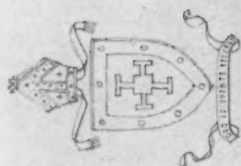
Mr. W. P. Hunt, who is 33, is at present Assistant Lecturer at the School of Architecture, Cambridge University. He was trained at Manchester School of Architecture and won the Athens Bursary in 1947.



Major A. D. Kirby is 40. He received his training at The Royal West of England Academy, Bristol, School of Architecture, was Tite prizeman in 1934, and is now a partner in the Swindon firm of R. J. Beswick & Son. His design in the competition for Gloucester Cemetery Chapel was highly commended.

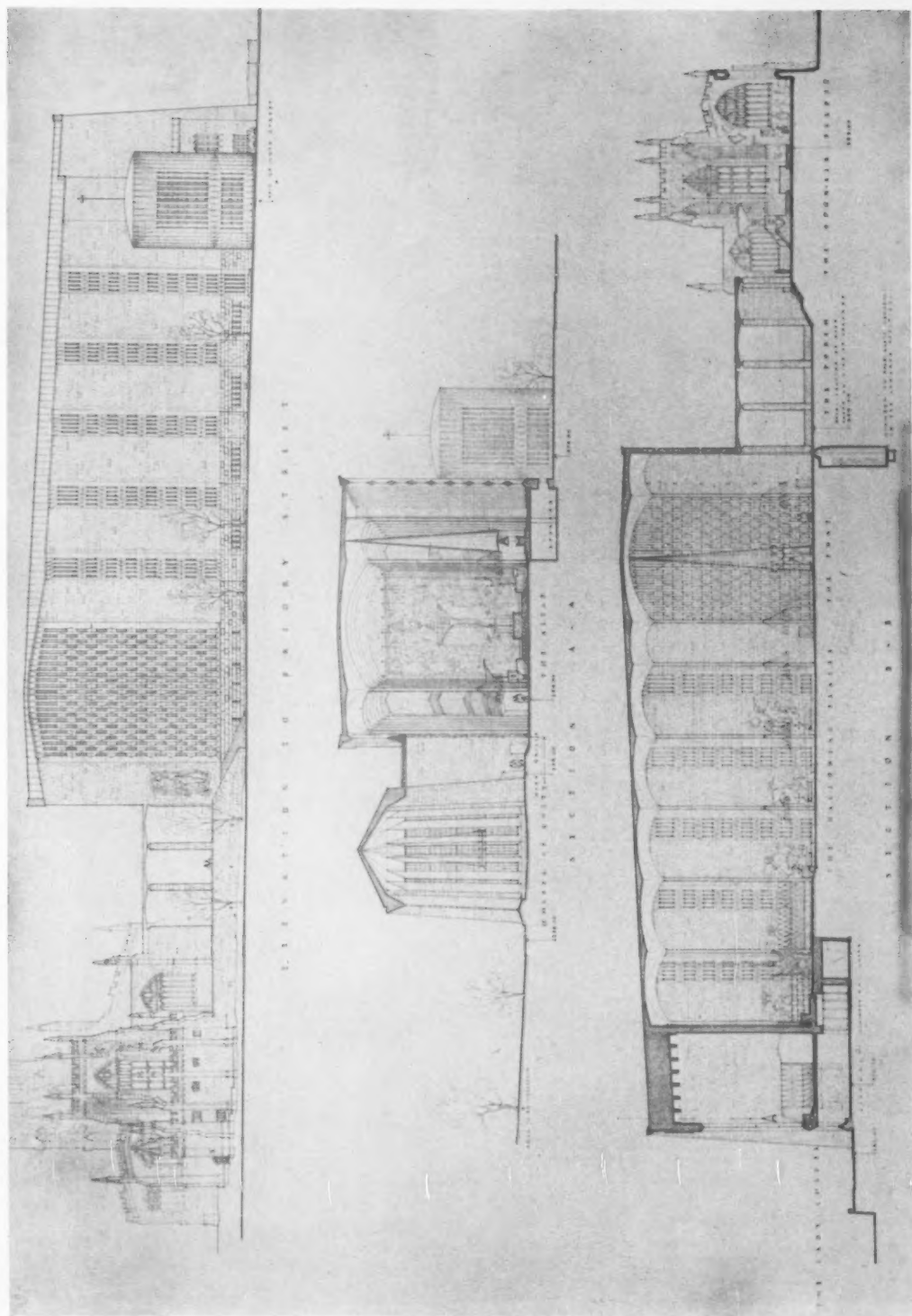


COVENTRY



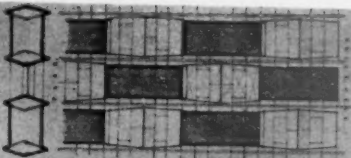
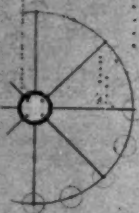
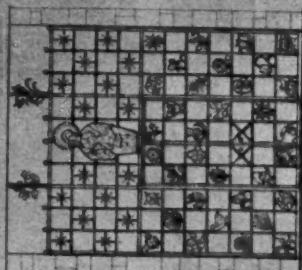
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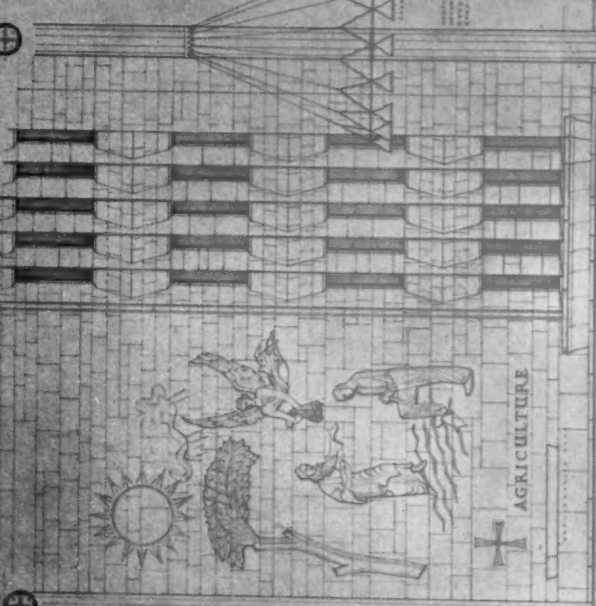


COVENTRY CATHEDRAL COMPETITION HALF INCH DETAIL.

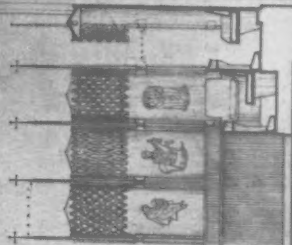
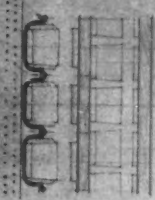
CHILDREN'S CHURCH: WOODEN FLOOR SCREEN



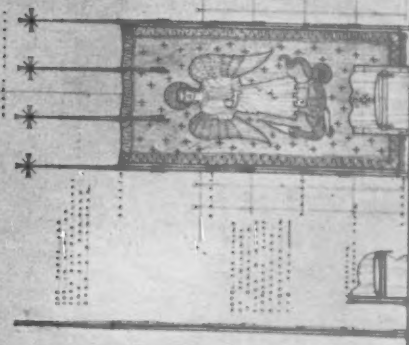
FRONT OF THE
SOUTH CHURCH



AGRICULTURE



EXPOSITION



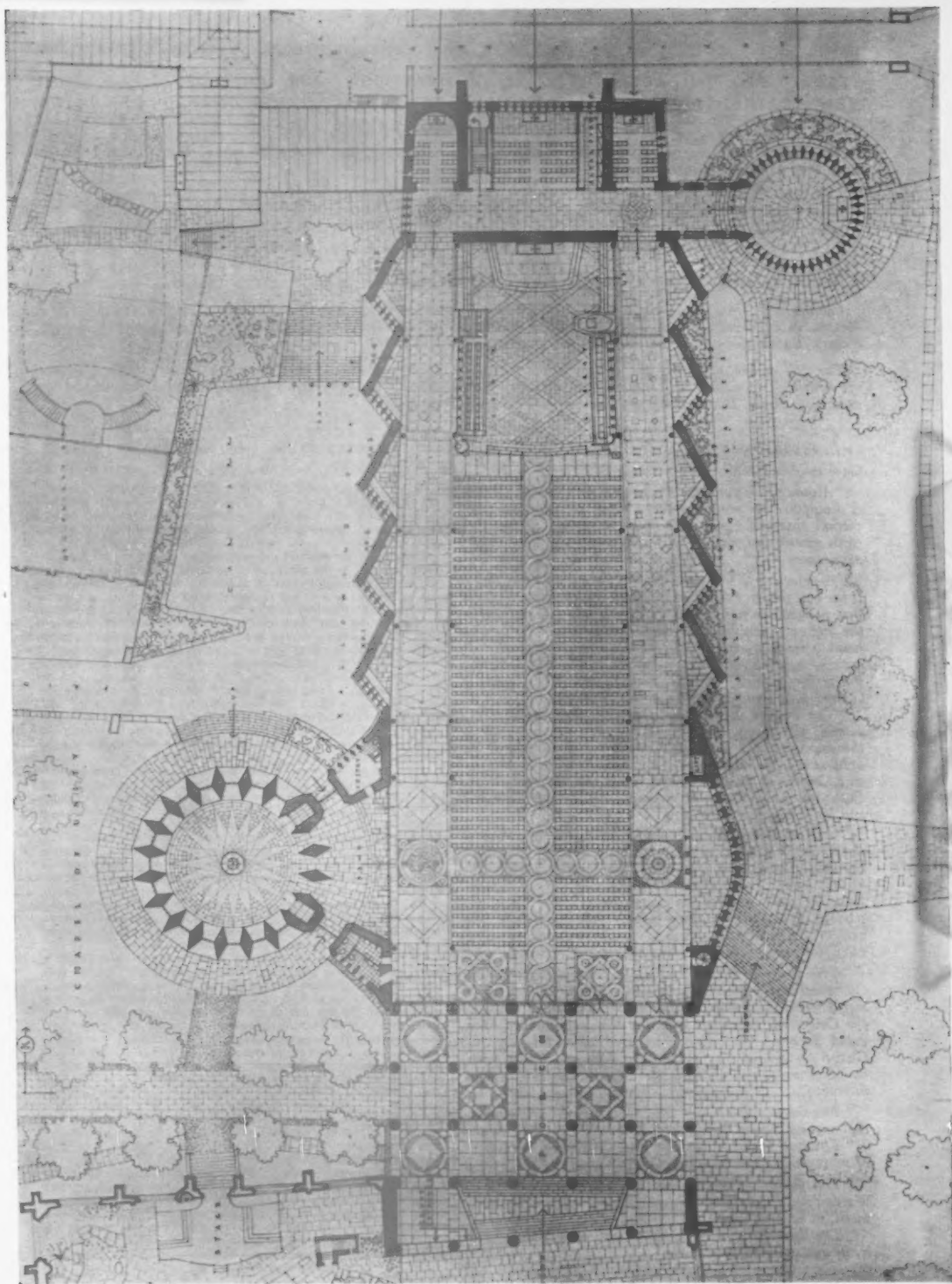
EXPOSITION

THE BISHOP'S TRON

THE STALLS

HALLOWING PLACE: ELEVATION

HALLOWING PLACE: ELEVATION



RESULT OF THE ARCHITECTURAL COMPETITION FOR THE DESIGN OF THE NEW CATHEDRAL OF ST. MICHAEL, COVENTRY; THE CHAPEL OF UNITY, AND THE CHRISTIAN SERVICE CENTRE

The following awards have been made by the assessors, Sir Percy Thomas, Mr. Edward Maufe and Mr. Howard Robertson :

- 1st premium of £2,000 : Mr. Basil Spence, O.B.E., F.R.I.B.A., F.R.I.A.S.
2nd premium of £1,500 : Mr. Wallace Padfield Hunt, A.R.I.B.A., A.M.T.P.I.
3rd premium of £1,000 : Major Arthur Douglas Kirby, A.R.I.B.A.

Highly Commended : Mr. Rolf Hellberg, F.R.I.B.A.; Messrs. Tischer & Hildebrand.

Commended : Mr. A. Cordiner, A.R.I.B.A., A.M.T.P.I.; Messrs. D. Lumsden, F.R.I.B.A. and H. Gibberd, A.R.I.B.A.; Messrs. A. E. Richardson, Houfe, Holland and Partners; Mr. Terence Carr, F.R.I.B.A.; The Peter Dunham Group; Messrs. Charlewood and Fitch, F.F.R.I.B.A.; Messrs. T. Mellor and J. A. Ashworth, A.A.R.I.B.A.

The 219 designs submitted are now on exhibition at King Henry VIII's School, Warwick Road, Coventry, between the hours of 11 a.m.-8.30 p.m. until August 26. The 1st, 2nd, 3rd and Highly Commended designs will be on exhibition at the Building Centre, London from August 29th.

THE ASSESSORS

Say in their Report . . .

"Although we consider the general level of the designs is disappointing, yet we are very happy to report our conviction that the Competition has succeeded in bringing forth several designs of great merit, and one of outstanding excellence.

"In selecting this design [No. 91] we not only feel that it is the best design submitted, but that it is one which shows that the Author has qualities of spirit and imagination of the highest order. He lets the Conditions grow under his hand to produce a splendid Cathedral, and as the Conditions are unusual, the resulting conception is unusual; revealing the author's ability to solve the problem of designing a Cathedral in terms of contemporary architecture.

"The Author in his Report stresses the beauty of the existing destroyed Cathedral as an eloquent memorial to the courage of the people of Coventry, and states it as his opinion that the major part of it should be allowed to stand as a Garden of Rest, treating it as an Atrium to the New Cathedral which "should grow out of the old Cathedral and be incomplete without it."

"The interior fully meets the requirements of liturgical movement. The Altar is not narrowly confined within the usual Chancel but is open on its sides to the full width of the Nave. The Hallowing Places are admirably treated, being recesses toward the congregation from the wide passage aisles with lighting which falls only from the side on to beautifully designed Sculpture appropriate to each Hallowing Place, avoiding all glare to the eyes.

"The Chapel of Unity is not a mere adjunct to the Cathedral but a Building elemental in form and of great significance. It is independent of, yet an integral part of, the Cathedral; separated from the Nave only by an open metal Screen. The Author strongly advocates that this Chapel should have its axis on the Font and this is what he has devised, making the Font in the Cathedral of special importance.

"The shape of the New Cathedral is impressively simple, the existing Tower being an essential part of the Design.

"The Half Inch Details show that the Author is capable of most skilled and sensitive design.

"The Chapter House, the Christian Service Centre, Warden's and Caretaker's Houses, have much architectural merit, in keeping with the Cathedral itself.

"The Estimate of Cost clearly set out in the able Report, is, in our opinion, reasonable."

EXTRACTS FROM THE WINNER'S REPORT

The Idea

As the Cathedral stands now, it is an eloquent memorial to the courage of the people of Coventry. It is felt that the ruin should be preserved as a garden of rest, embracing the open-air pulpit and stage, and the new Cathedral should grow from the old and be incomplete without it.

The altar is the heart of the new building, it can be seen from the ruined nave. The five glass screens dividing the porch from the nave are of clear glass and, on great occasions and on warm summer evenings, can be lowered so that the Cathedral is open. There is no physical obstruction, on occasions such as these, between the whole population of Coventry and the altar. Saint Michael's Avenue, the traditional right of way, remains, except that it passes under the Cathedral porch within sight of the altar.

As the life of Our Lord commenced with a star, the first element of the Cathedral plan is the Chapel of Unity, star-shaped, and is on the axis of the font. Then, turning towards the altar, the nave is flanked by the Hallowing Places and the windows shining towards the altar and representing the phases of life. This sequence culminates with the altar built by Mr. Forbes after the bombing of the Cathedral, it is surmounted by the charred cross, and backed by a great modern tapestry representing the Crucifixion.

Much thought has been given to the position of the Chapel of Unity in the Cathedral plan. It must express Unity, and is the Chapel of the Holy Spirit; it has its place in Pentecost, and, if Baptists and Methodists are to worship according to their consciences and with sincerity, it may be wrong to be completely within sight of the altar. The Act of Baptism, however, is another matter, and, as unity is a primary consideration, the chapel is on the axis of the font. During combined Services, those wishing to be within sight of the altar can sit near the grille which is the limit of the Chapel of Unity, though it must be stressed that the primary object in the design of this Chapel is a room of prayer. The Chapel's shape represents Christian Unity; in elevation it is shaped like a Crusader's tent, as Christian Unity is a modern Crusade, and an attempt has been made to use dynamic crystalline forms which are contemporary, yet have their roots deep in the past.

The air breathed in the Cathedral is the same as in the Chapel of Unity, as no glass or solid material divides the Chapel from the open nave; the legal division is represented by the open grille. Entering from the porch, the first important incident is the axis of the Chapel of Unity and the font. In the case of Coventry, the font has great significance; the desire to perpetuate in the Church the youthful faith and courage of the people of Coventry can be expressed here. The font cover is conceived in a light steel sheet; a tall tapering form designed after the manner of a fir cone. The parts resembling ploughshares getting smaller as they near the point. Behind the font is the Baptistry window composed of 195 lights, 172 of which are of uniform size, and the stained glass panels would not be too expensive as donations from the Public.

As suggested in the Conditions, the Hallowing Places are on the outer walls of the Cathedral. These are sculptured recesses with ideal lighting for bold relief.

Great importance is given to the stained glass windows; with the exception of the Baptistry windows and those lights over the entrance to the Chapel of Unity, all windows shine towards the altar. Behind the font the glass is very pale, almost white, with a slight tint of rose and pale blue, and, moving towards the altar, the next windows are composed in tones of green and yellow representing youth. The next pink and red, representing puberty, the next—the age of experience—

(Continued on page 207)

Newstead Mill

TRENTHAM
Stoke-on-Trent

architects :

Messrs.
C. F. REDGRAVE
& Partners
COVENTRY

GENERAL PLANNING

Site is rectangular with woods to west, spinney and footpath to main road to north, service road to east and open land for future extension to south. Preliminary economy in road costs dictated main entrance at north-east corner to serve warehouse, fuel delivery, garage and offices. Timekeeper's office and caretaker's house are planned by main entrance.

DETAIL PLANNING

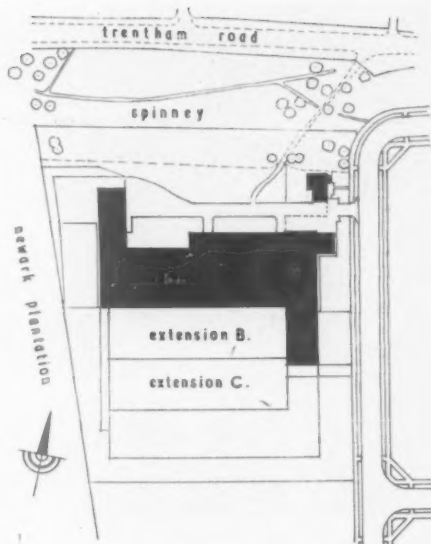
Unloading space under canopy with 14ft clearance and with lifting gear is planned at north-east corner outside warehouse, to which access is obtained through opening with steel roller shutters electrically operated.

Warehouse is planned with gantry for lifting and storage of beams, weighing machine, and loading platform for storing and despatching rolls of cloth. An inspection machine for finished cloth is placed next to loading platform.

The winding room is adjacent to warehouse and both winding room and warehouse have direct access to weaving shed so that the circulation of beams, pirns and finished cloth is properly maintained.

The weaving shed is planned to accommodate 96 automatic Northrop sheeting looms, each loom driven by independent electric motor with services in the floor. Wide alleyways for servicing looms. Nothing overhead except lighting and air-conditioning ducts.

Works entrance, canteen, cloaks and lavatory accommodation, general office, office entrance and manager's office are planned along the north side of weaving shed. The manager's office is on the centre line of weaving room and it is at a raised level with double-glazed bay window giving full view of the whole of weaving shed.



A ramped road gives access to garages and delivery to fuel bunkers over heating chamber.

CONSTRUCTION

The main construction consists of reinforced concrete stanchions and roof of shell concrete construction over weaving room, warehouse and winding room with brick walls and metal windows.

The roof over warehouse and winding room is segmental with circular roof lights giving very even lighting. The roof over weaving room is of north-light section, with double-glazing in aluminium bars. The construction of offices, garages, ventilation plant room, etc., is of weight-bearing brickwork with reinforced concrete flat roofs.

The shell concrete construction is eminently suitable for weaving room as only four stanchions are required and the ceiling is absolutely unbroken except for the main supporting beams and thus no ledges are present for collection of dust, dirt and fly. The curved section of the main ceiling, together with the tapered stanchions, give an eminently satisfactory aesthetic appearance.

It is believed that the span of the north-light reinforced concrete construction is the largest in the country. The finish of exposed concrete is patterned by the use of hessian as a lining to the shuttering. Insulation to prevent heat losses and condensation is effected by the use of insulation board and double glazing.

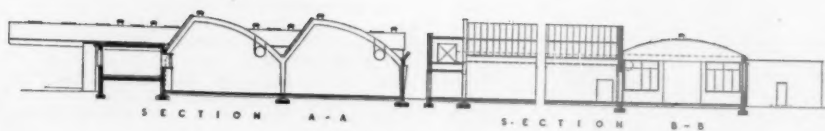
AMENITIES

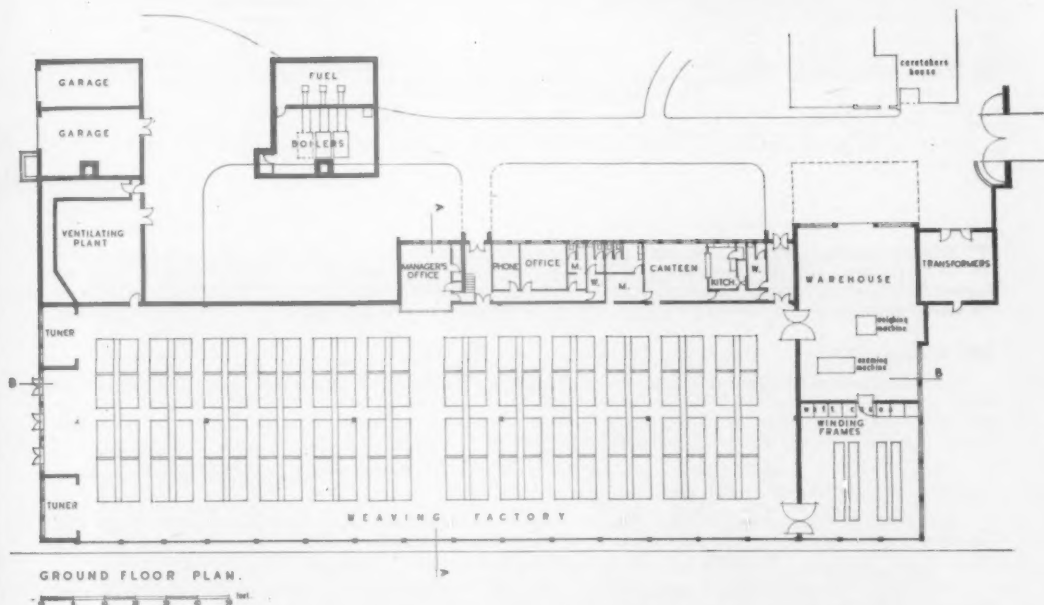
The weavers' alleys have a floor of maple strip inset in the general granolithic floor. A bay at the end of weaving shed is fitted with large windows so that weavers may see the woodland to the west. This bay is to be used for exhibition of the finished cloths.

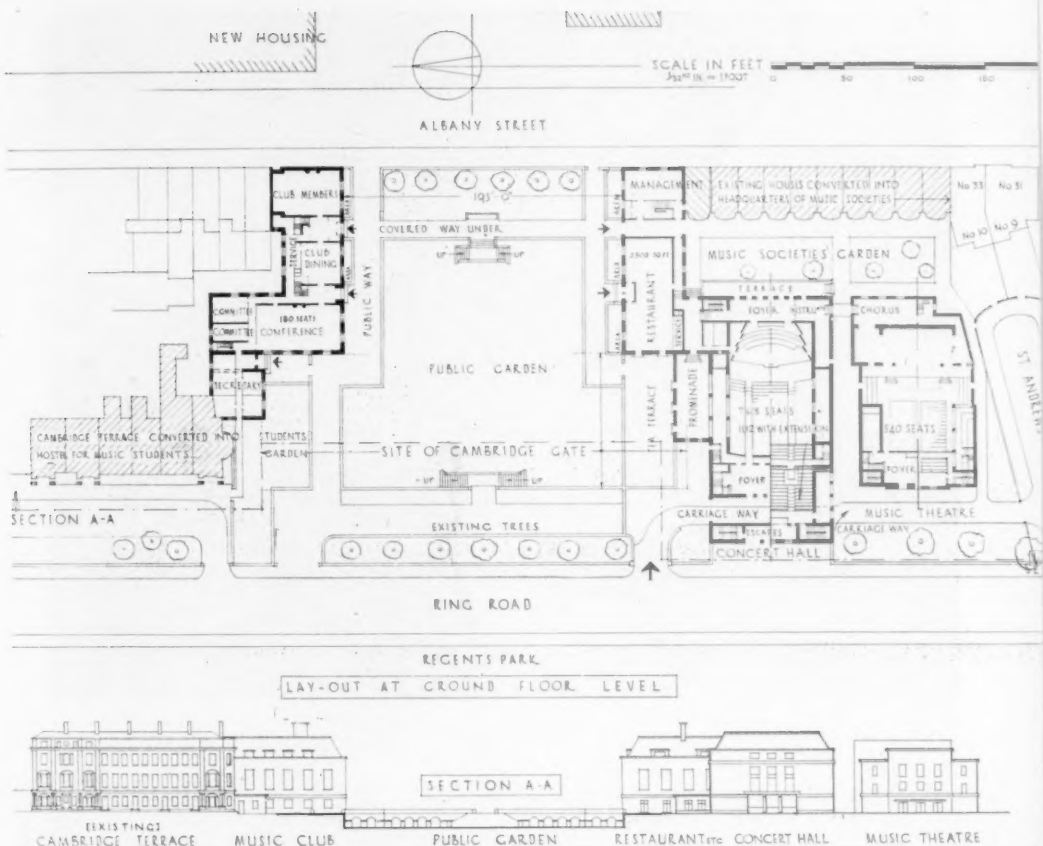
The decoration of the mill is carried out in a colour scheme of Shell Pink and Ivory for walls and ceiling with Wedgewood Blue for woodwork. Bright colours have been used in the canteen.

The lighting consists of continuous fluorescent lighting at right-angles to looms and it is of a natural shade.

The gardens have been laid out with lawns, rose beds and rockeries.







THE LONDON SOCIETY'S PROPOSAL FOR A MUSIC CENTRE IN REGENTS PARK

THE London Society, in January, 1945, appointed an expert sub-committee to advise upon the creation of a Music Centre. A Committee, under the Chairmanship of Lord Gorell, set up by the Government to enquire into the future of the Regents Park Terraces, suggested these as a suitable site for the erection of a Music Centre. The London Society adopted the recommendation of Lord Gorell's Committee, and Mr. Hope Baganel, F.R.I.B.A., was asked to prepare sketch plans.

Some comments on them are as follows :—

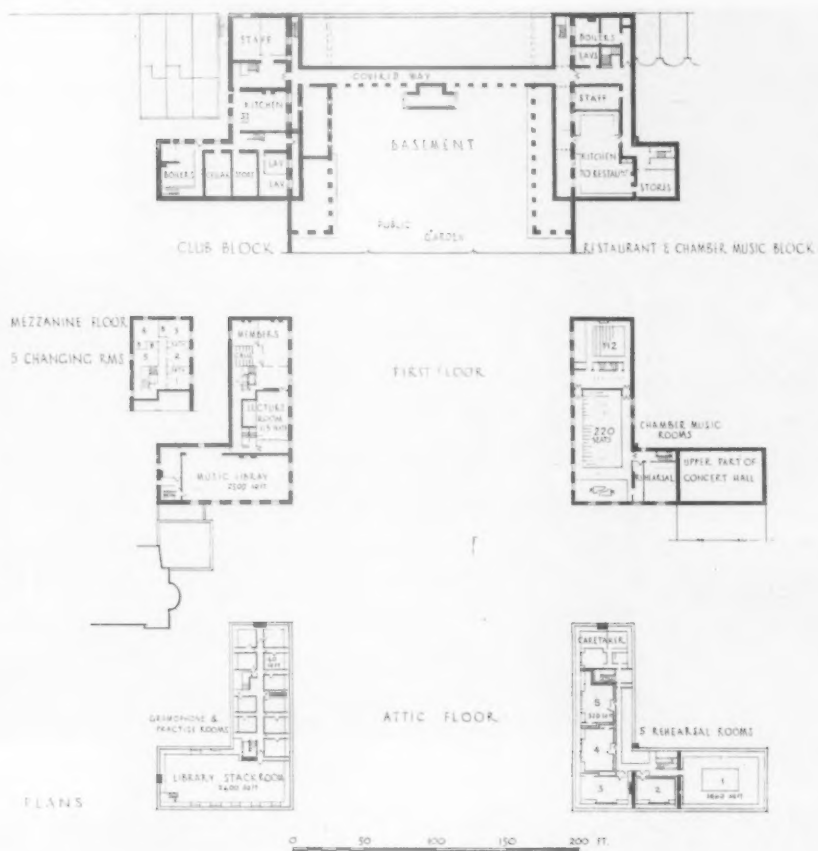
Somersey House and Cambridge Gate are to be pulled down. Cambridge Terrace, however, will be converted and used. Colosseum Terrace, Albany Street, will be removed. But it is proposed to retain the row of Greek Revival buildings with their bow fronts to the gardens. Mr. Baganel in his plans has not indicated the elevations in detail, but The London Society hopes that they will be designed in the Regency tradition.

The two sections of the Music Centre, made inevitable by the opening to Regents Park, are to be connected by a covered way and a sunk garden will provide the green link indicated in the Gorell Report.

The South side of the building provides two halls. One, a concert hall with seating for 760 convertible up to 1,100. The other, designed as a music theatre for experimental opera, or, by making use of the ramped seating, to be used as a rehearsal room for choirs. Connected with the larger hall is a promenade adjoining a tea terrace and restaurant.

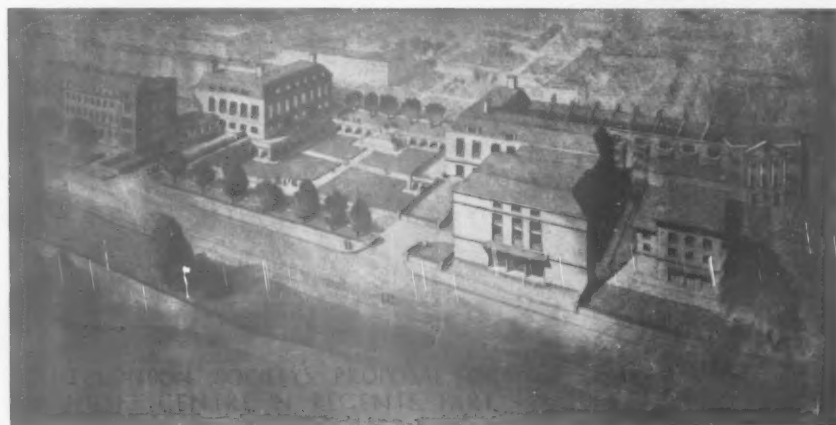
The Northern block is designed to serve as a club. It includes Members' rooms, a lecture and large conference room, changing and practice rooms. A secretaries' block connects this with the Cambridge Terrace houses which it is proposed should be converted into a hostel for music students.

H. BAGANEL
HON. ARCHT.



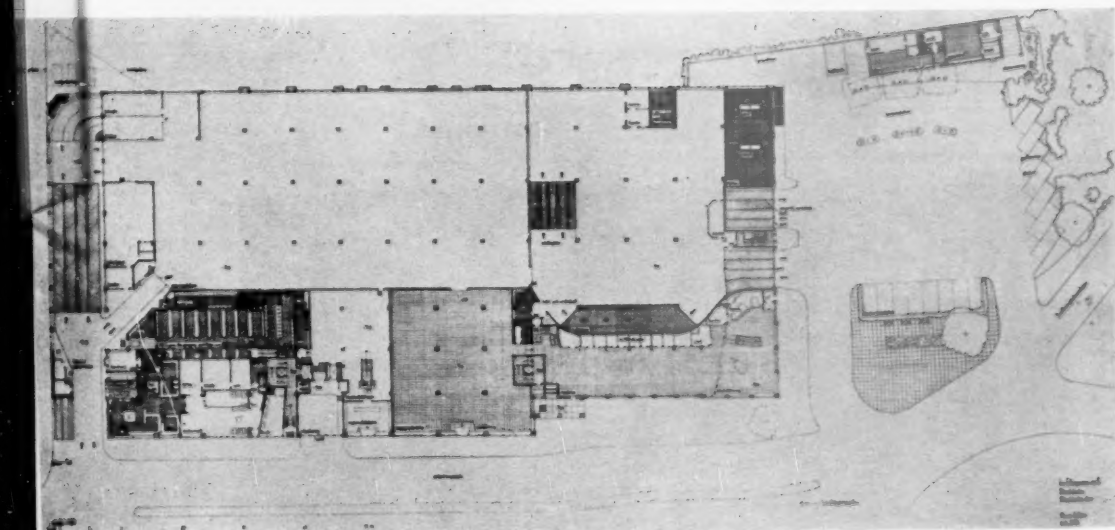
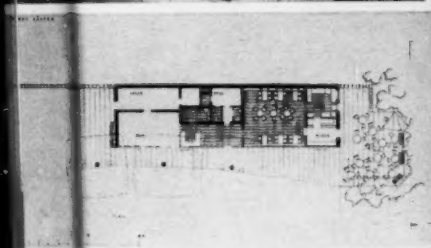
A suggestion for the layout of the site

Perspective by E. Eastwick-Field.



THE INGVAR
BERGEGREN CO.
HEADQUARTERS BUILDING
STOCKHOLM

architect:
STURE FROLÉN



Plan of the whole scheme with, above it, enlarged plan of garage.



The building is constructed in reinforced concrete on a foundation of bedrock following excavation of 1,500,000 cubic feet of soil. During construction temporary roofing was used to protect the site. Main stanchions on the garage floor are 26ft apart, centre to centre, except in the repair shop where the clear span is 87ft. Daylight comes from clerestory lights. Part of the roof can be used for parking space with ramps leading up.

The layout consists of a "low-block" and a "high-block," the former having two stories below and two above ground. The two underground stories are used as garage space. Display rooms are at ground floor as well as the service department, stores, changing rooms for personnel as well as shops and a restaurant. On the first floor is the main repair shop. The high block, measuring 256 x 69ft overtowers the low building by five stories.



The Ingvar Bergengren Co. Building, Stockholm.

The Display Rooms on the ground floor.

(Continued from page 198)

are multi-coloured, then the age of wisdom—the windows are deep blue and purple—and, finally, the altar windows of golden glass. As in life, the colour of the windows is revealed only as you reach each stage—the past is known, the future is not. Only when the altar is reached the whole range of colour is seen for the first time.

The author of this design does not see this building as a planning problem, but the opportunity to create a Shrine to the Glory of God.

The Plan

The plan divides itself simply into four distinct elements: the old Cathedral, the Cathedral Porch, the New Cathedral containing the Chapel of Unity, Guild Chapel, Lady Chapel, Children's Chapel, and the Chapel of the Resurrection, with all the attendant rooms, and finally, the Christian Service Centre Group, which includes the Warden's House and the Caretaker's House.

Vehicle access is centrally placed off Priory Row, and the service road leads from Priory Street to a yard which serves the Heating Chamber and all three kitchens (The Christian Service Centre, the Warden's Kitchen and the Caretaker's Kitchen). Foot access to the Christian Service Centre is obtained from both the car park as well as Hill Top. Access to the crypts is from under the Cathedral Porch.

General Structure

Structurally, this building is planned on simple lines. A reinforced concrete vault, designed as lightly as possible, supported by tall elegant columns of steel cased in concrete, or post stressed concrete units. Walls are of solid stone construction pierced with windows. The floor is concrete with a finished surface of patterned stone, and the foundations are of concrete.

It is proposed that the vaulting should be shell concrete approximately 2½ in. minimum thickness. Each vault to have reinforced concrete edge trimming beams for restraint, and these are to extend above the vault, and will constitute a grid of continuous beams extending from wall to wall and longitudinally down the building with point supports from columns.

The roofing is of copper (if copper is available). It is hoped that it may be permissible to use a slenderness ratio (for the columns) of not less than 200 in view of the support obtainable from the walls. Compound stanchions are proposed of heavily-plated cruciform sections to provide the required radius of gyration.

It is proposed to reuse for all columns, in lifts of approximately 6ft, a standard metal drum shuttering faceted on the internal faces. The final column finish is to be bush hammering.

The slightly corrugated shape of the stone side walls, and their angled setting to the main roof vault in conjunction with the mesh of stone window heads and sills which connect the ends of bays produces an immensely strong saw-toothed wall in which the window sections tend to act as integral buttresses. This wall provides maximum lateral support to the vault to meet both live and dead lateral loadings, and, in view of its strength, it may also be used to relieve the columns of a proportion of the vertical roof component through the grid of continuous beams, thus permitting a relatively light column section to be used.

It was considered essential that the same stone, or a similar variety to that of the Old Cathedral, be used. Where possible, mouldings and other expensive Masons' carvings, have been eliminated. Simple chamfers are used, and decoration is in the form of sculpture which is not much more expensive than an elaborately moulded wall surface carried out by masons. This stone is used for the Christian Service Centre as well.

The floor slab carries the heating elements. The finished surface is composed of a pattern of stone slabs of varying cold colours to contrast with the pinky-grey walls. Under the Porch, however, cobbles are interspersed with stone slabs to catch surface water which may permeate from the outside.

Foundations are normal, being constructed of concrete.

Detailed Description

THE OLD CATHEDRAL: In order to establish which parts of the Cathedral can be left standing a detailed examination will be required. It is the intention to preserve as much of the old as possible, and it will be necessary to protect the upper surfaces by some method of damp-proofing to prevent deterioration through the years. The old Cathedral should be planted out with trees, shrubs, and flowers, and certain creepers should be encouraged to grow over the old walls, and the large paved area adjacent to the Porch would serve for the congregation during open-air Services.

The open-air stage is unaltered from its existing position, as this has the ideal orientation, and gives an excellent setting for religious plays.

The Porch grows from the Old Cathedral, and it has been designed in the lightest and most unobtrusive way as an introduction to the new building. The spacing of the five bays which form the mathematical unit on which the whole plan has been designed are taken from the old Cathedral.

THE NAVE, CHOIR AND AISLES: The five glass screens dividing the Porch from the Nave are capable of being lowered into the floor. Each Screen has a set of doors which come into operation when the Screens are in the raised position.

The Nave accommodates the seating. The area indicated on the plan is the extent of the heated floor slab. The total number of chairs accommodated on this slab is 1,374.

The Choir Stalls are designed to accommodate 40 choir and an organist and console; on the opposite side, stalls for 24 Clergy and a Bishop's throne.

Looking towards the altar, the Pulpit is on the left and the Lectern on the right. The Pulpit is constructed of Portland stone with a laminated wood sounding board designed to be acoustically correct. The Lectern is the traditional brass eagle.

The Bishop's Throne is designed for fabric, probably a brocade, cobalt blue in colour.

The altar is the existing one which is carried into the Cathedral along with the charred cross and the cross of nails, as relics.

The tapestry is backed by a stone wall, and is hanging from great bronze pins built into the wall. This tapestry, for which £30,000 has been allowed in the estimate, could be designed by a great contemporary Artist, or a competition might be organised. This would be the largest tapestry in the world, and would be the most beautiful background for the altar and the charred cross. The subject of the tapestry is the Crucifixion.

Ten Hallowing Places are shown on the plan, each one is a sculptured recess, but the stained glass windows, casting their different colours over the sculpture, would make them slightly different from each other.

Space for the Organ is allowed for over the ways to the Children's Chapel and the Chapel of the Resurrection.

The Chapel of Unity is simply constructed on a concrete foundation with large diamond-shaped mullions of stone which support the roof of concrete. The floor is slightly dished, and the star pattern should be of golden stone and the remaining infilling of blue marble. The central symbol of the Holy Spirit is of mosaic.

The Lady Chapel, which seats 70, is placed in its traditional position behind the altar, and the large window which is shown on the North elevation, lights the interior. The walls are of stone, and the roof of deep concrete beams which should be brightly coloured in rich mediaeval colours of green, red, white, black and gold.

The Chapel of the Resurrection balances the Children's Chapel, and seats 30.

The Guild Chapel, which can accommodate 80 people, gets its character from the tall mullioned walls. A feature of this design is that the windows can represent all the Trades, and the stained glass designs can incorporate the Arms of the various Guilds.

The lower ground floor is designed as a working adjunct to the main Cathedral above. It accommodates the Chapter House, the Provost's Vestry and his Secretary, the Muniment Room and the Sacristy, the Choir Vestry, and also with the necessary Cloaks and Lavatories.

The Chapter House is designed to accommodate 30 members of the Chapter.

THE CHRISTIAN SERVICE CENTRE: This group embraces the Warden's House, the Caretaker's House, and the Christian Service Centre itself. An attempt has been made to create a building of friendly secluded and domestic character which people would enjoy using, and make a habit of visiting. The position was considered carefully, as it allows of future extension on to the spare ground to the extreme North-West of the Cathedral site.

The Warden's house has been planned as an integral part of the Christian Service Centre, but his house is conveniently placed in relation to the Cathedral.

The Meeting Room occupies a central position on the plan, and overlooks a garden and a pool through a verandah which faces due South. The Reading Room is placed on the end of the circulation, with a Southern balcony for those wishing peace and quiet.

Heating and Lighting

It is proposed to use an accelerated low-pressure hot-water system with floor coils set in the floor slab. These will be divided into approximately five separate sections for control purposes.

Present costs indicate that gas fired boilers will be the most economical, and especially so if cheap off-peak rates now under discussion become available. Should electricity become an economical proposition while the Cathedral is being built, this method of heating can readily be installed, using electrode boilers in preference to gas fired ones. The lower ground floor and the Christian Service Centres are heated by low pressure radiators off the same system.

Straightforward tungsten lighting is suggested. The only departure from this method is the illumination of the Tapestry, which should be discreetly floodlit.

Estimate of Cost

In order to arrive at a cube, quantities were taken out and priced at the rates current as at 30th October, 1950.

Cubing at 5s 6d for the main Cathedral, and 5s 4d for the Christian Service Centre, the cost is estimated at £801,103 16s 4d; this excludes the cost of the organ and the cost of the lay-out. It does include, however, for the terrace, the paving in the porch, and the steps leading to the old Cathedral, and the formation of the new walls which form part of the old Cathedral.

NEWS OF THE WEEK

Competition Result

In the Architectural Competition for a Marine and Technical College, South Shields, the Assessor, Mr. G. W. Milburn, M.B.E., F.R.I.B.A., has made the following awards: *First premium* of £500: J. D. M. Taylor, M.A. (Cantab.), A.R.I.B.A., Joyce V. Wilson, A.R.I.B.A., A.A. Dip., A.M.T.P.I. *Second premium* of £250: C. W. H. Wright, A.R.I.B.A., and Michael R. Crux. *Third premium* of £150: Messrs. Harris & Gard. *Commended*: A. G. Price, A.R.I.B.A. Seventeen designs were submitted.

Steel Rationing

The Ministry of Supply announces that control over the distribution of the main forms of carbon steel will be introduced on 3 December, 1951. Roughly 95 per cent of the steel used in Britain is carbon steel.

The present arrangements for controlling the distribution of sheet steel, tinplate, terneplate and blackplate will remain unaltered.

London: an Adventure in Town Planning

Exhibition of work by Assist. Professor Smigielski, Staff and Students of the School of Architecture, Polish University College, at the Institute of Contemporary Arts, 17-18, Doyer Street, Piccadilly, W.1. Week-days 10 a.m. to 6 p.m. 13 September to 6 October.

APPOINTMENT

Miss Jaqueline Tyrwhitt, A.I.L.A., A.M.T.P.I., has been appointed Visiting Professor in Town & Regional Planning at the University of Toronto for the academic year 1951-52.

ANNOUNCEMENTS

Following his work as Co-ordinating Architect for the South Bank Exhibition, Misha Black, Director of Design Research Unit, has been appointed to advise B.O.A.C. on the design of the equipment which will be housed in their Central Maintenance Base now being constructed at London Airport.

James de Holden Stone, F.S.I.A., and Warnett Kennedy and Associates, are now collaborating on the exhibition and display side of their practices.

Warnett, Kennedy and Associates, Architects and Design Consultants, have opened an office at Waterloo Chambers, 19, Waterloo Street, Glasgow, C.2, in addition to their London office at 67, Upper Berkeley Street, W.1.

CORRECTION

In the A. & B.N. issue July 12, 1951, acknowledgement to the Architect of the new buildings for the North Thames Gas Board at Bromley-by-Bow should have read: "Architects: Elie Mayorcas, F.R.I.B.A., in association with P. H. Lawrence, A.R.I.B.A., and Assistant Architect R. H. Britcher."

The Planning of Hospitals

To the Editor of A. & B.N.

Sir,—Your realistic editorial of July 26, asking where research on hospital planning should start, may, I think, have over-estimated the amount of basic evidence available about the future patterns of health-care—patterns into which the hospitals will have to be designed to fit. There is need not simply for committees to collect and sift accepted opinions and ascertained facts, but for more fact-finding. This at least has been the experience of the Nuffield Provincial Hospitals Trust, which—in its concern for the better ordering of medical services—has had to engage upon a series of inter-related studies and experiments to elucidate some of the missing facts and unknown factors. May I give some examples? The need for, and duration of, admission to hospital may be revolutionized (a) if health-centres are eventually put into general operation in such a way that general practitioners can obtain diagnostic aids and specialist consultations without having to refer patients to in- or out-patient departments of hospitals; and (b) if domiciliary care of patients can be assisted and improved. But the effect of such measures cannot really be known until (a) some experimental health-centres have been started and tested, and (b) further experiments in domestic care can be arranged. Experiments in both these fields have been planned by the Trust, but it will be some time before their results can be measured—even assuming that official permission for them to proceed will be promptly given.

Within the hospital itself there are still many unknowns. The effect of comparatively simple and cheap hostels, instead of expensive and elaborate hospital facilities, for patients awaiting investigations has yet to be tried. The introduction of early ambulation in medical and surgical wards would alter the arrangements not only of nursing but also of toilet facilities and sitting-up space. The daily tasks and the patterns of movement within the ward, and in out-patient clinics, are susceptible of time-and-motion study so that the layout of the ward or clinic may be tailored to the tasks performed there. These and many other relevant studies (including those more purely architectural) are being undertaken by the Trust's team investigating the functions and design of hospitals, and by the team making a job-analysis of nursing. The Trust's research team on hospital design has included a physician, a nurse, a sociologist, an architect, an accountant, an organizer for such practical work as, for instance, time-and-motion studies, and an historian. But again, it will be some time before the results of their enquiries,

and of practical experiments based upon them, can be known.

For these reasons your editorial is a welcome pointer to the need for much more research and trial during the period of enforced restrictions on new building, before developments in the design not only of hospitals but of the rest of the pattern of health-care can be intelligently and usefully discussed and settled.

I am, etc.,

L. FARRER-BROWN,
Secretary, Nuffield Provincial
Hospitals Trust.

To the Editor of A. & B.N.

Sir,—I was much interested in your excellent leading article on the "Planning of Hospitals." It has been my good fortune to visit many hospitals in this country and overseas, and my interest, naturally, is focused on the care of the patients and the convenience (or lack of it) afforded by the architectural design and equipment to those who give this care, e.g., nurse and doctors.

Unfortunately, it is the exception rather than the rule in Great Britain for the nursing staff to be consulted by the architects and other planners of new hospitals and units, although they are the people who have to work in the finished buildings. I have seen the most elementary functional mistakes made, and so much that is badly conceived for its purpose because the advice of those who alone can know what is wanted in the day-to-day working has not been sought, or, worse still, overruled.

A classic and recent story in Great Britain is that of a hospital matron needing a room in which to sort laundry. The men arrived to do it, and the building went up, without any reference from start to finish to the matron or other relevant staff. When it was finished and the workmen had departed it was found that there were no heating and no shelves, and the door had been made too narrow to admit the laundry basket!

On the contrary, on going over an outstandingly good unit in Sweden, I was so struck with its suitability and convenience that I asked the sister showing me round, "Were the nursing staff consulted when this was being planned?" She looked at me astonished. "But, of course they were," she said.

May I put up a plea to the professional readers of your journal to make that state of affairs universal over here, and to insist upon consulting the nurse over every design that will affect their work. They will earn the gratitude of a profession whose work, even in the most ideal of buildings, must always be exacting.

I am, etc.,

J. ELISE GORDON,
Editor, Nursing Mirror.
(other Correspondence is held over until next week)

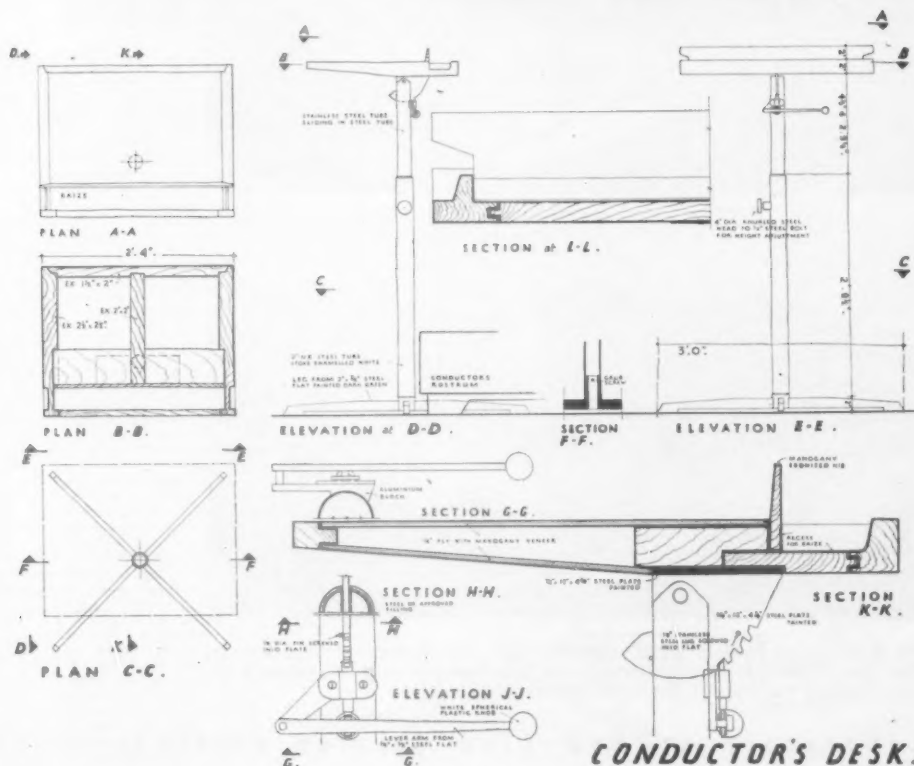
Royal Festival Hall Details

architects:
ROBERT H. MATTHEW
AND J. L. MARTIN

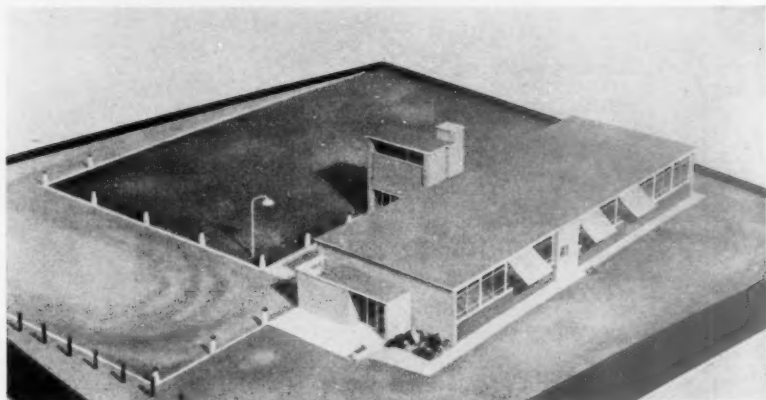
senior
architect in charge:
EDWIN WILLIAMS

associated architect:
PETER MORO

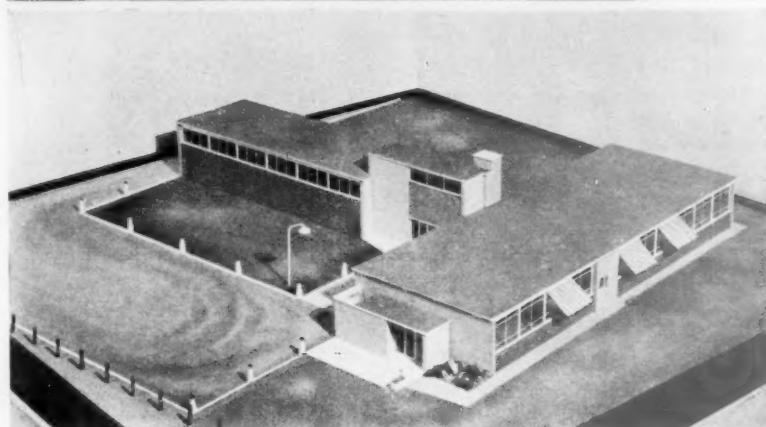
TOP can be tilted and height can be varied to suit the conductor. Wide legs have to be used to make the desk stable. Two of the legs slide under the rostrum so that the conductor's own weight prevents the desk from being knocked over.



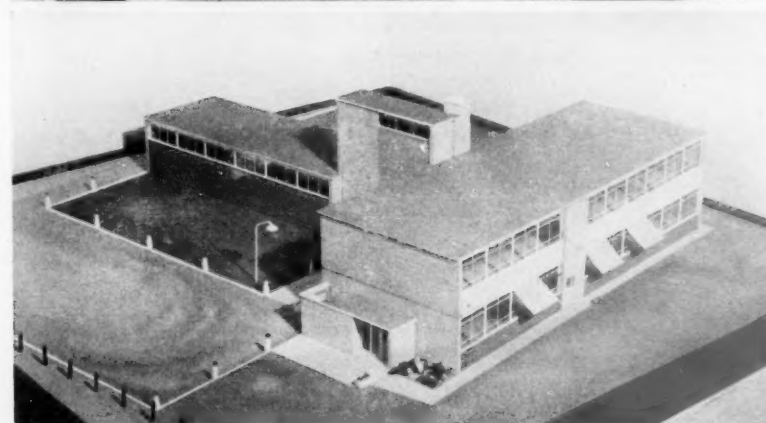
CONDUCTOR'S DESK.



First stage, which is now under construction, comprises offices, laboratory, dark room, balance room, stores, canteen and dining room.



Second stage. The building after the addition of engine testing laboratory.



Third stage. The building has been constructed and a second floor can be added if required.

The Architects are HAMMETT AND NORTON. Consulting Engineer: Felix J. Samuely, B.Sc. (Eng.), A.M.I.C.E. General Contractors for Stage I are Messrs. W. W. Rowney & Co. Ltd. The model was made by Messrs. M. Rolfe and D. A. Wynn.

Laboratory at Red Lion Service Station, Orsett

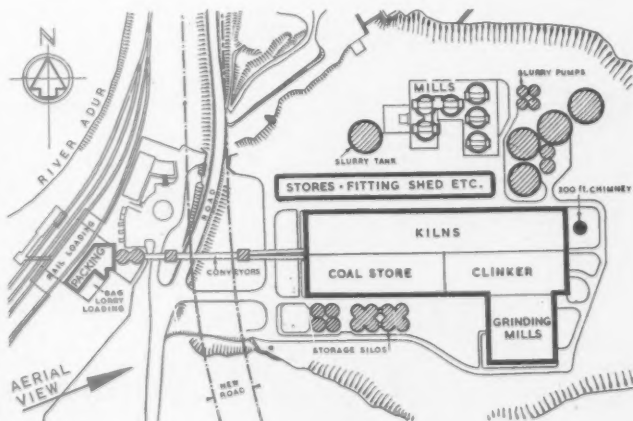


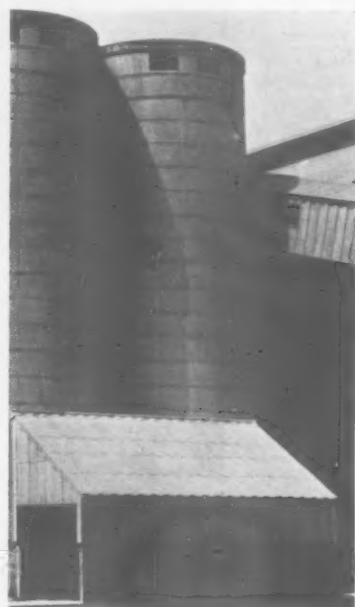
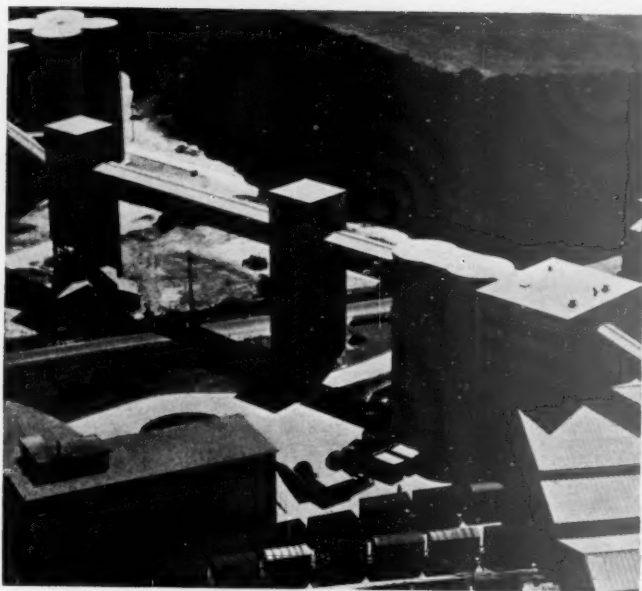
The British Portland Cement Manufacturers'
NEW CEMENT WORKS
 Shoreham, Sussex

Architect for Environment and Office Block only
G. A. JELlicoe, F.R.I.B.A., M.T.P.I.

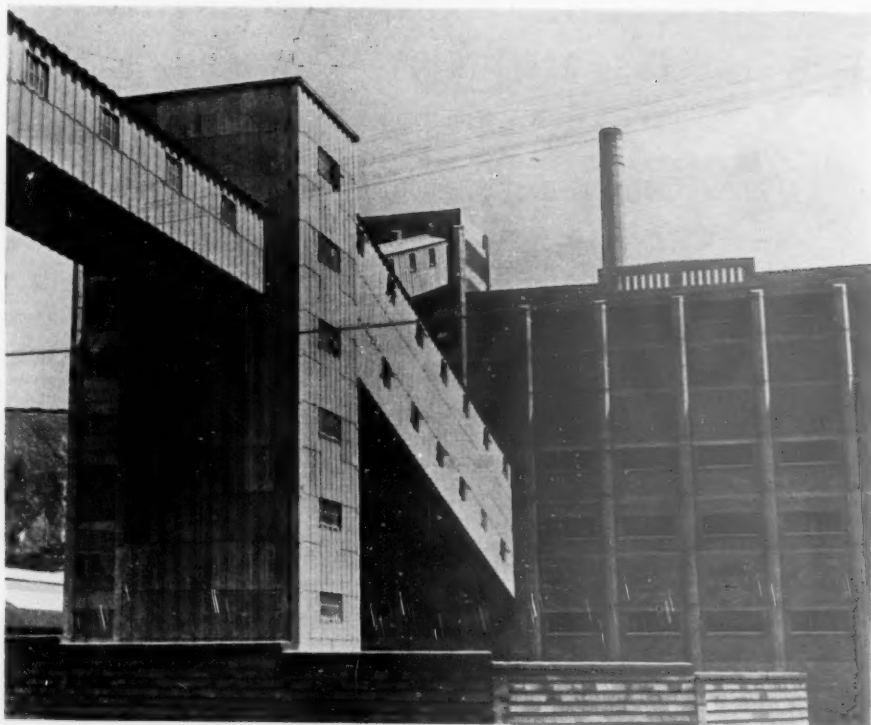
Consulting Engineers: Dr. Oscar Faber and Partners
General Contractors: Messrs. John Laing & Son Ltd.

The tendency to admit that architectural treatment has some place, even in the most utilitarian buildings, is growing. That this trend is to be encouraged there can be little doubt, for orderly planning and treatment of elevations is more than mere aesthetics. The site for these new cement works, set in the Sussex Downs, could easily have been mutilated. Far from mutilating the scenery however — for all that can be seen at a distance is a chimney capped by a graceful smoke plume — the individual buildings of these new works have, at close quarters, a certain drama. A drama created by admitting externally the internal needs of the individual building units.





2



3

CEMENT WORKS 4

SHOREHAM

The photographs on this and the facing page show various features of the works.

1. In the left foreground is the office block, sketch plans for which were prepared by the consulting architect. In the centre of the picture the present main road runs between two towers supporting the conveyors. This road, as indicated in the plan on page 211, is to be widened and will then pass centrally between the towers. The square building in the right of the picture houses the bagging plant from which chutes supply direct to truck-loading bays and to the railway sidings. At present the major output of the works is bagged, a factor which increases the cost to the consumer owing to the high price of paper. This works, however, caters for bulk despatch in special covered trucks. The loading bay for these trucks is shown in 2.

2. The circular storage silos are shown in picture 4. The cement from these is carried automatically by conveyors to the bagging plant across the road. But from the end silos shown in picture 2, cement is fed direct into trucks by canvas tube beneath the pent house.

3. A view from the main roadway showing the treatment of the conveyors and supporting towers, both of which are clad with asbestos cement sheet. The effect of chalk dust on this material is virtually unnoticeable. The same applies to the buff-coloured brick faces and to the buildings faced with concrete blocks.

4. The bank of storage silos faced with precast concrete blocks. All stored material—cement and fuel—is under cover, a factor contributing to the general cleanliness of the site.

5. A view of the twin rotary kilns. At eaves level direct ventilation is provided since the slurry is transformed into clinker at temperatures of about 2,500°F. Each kiln is 350ft long by 10ft in diameter. Replacement of the refractory lining blocks takes place whenever the outer metal starts to glow red. At the firing end pulverized coal is blown into the kilns and the red-hot clinker drops into open-ended tubes up which air is drawn by the heat thus cooling the clinker and preventing dust escaping into the building.



News of the BUILDING INDUSTRY

BRITISH IMPORTERS OF SOFTWOOD AND PACIFIC COAST SHIPPERS have reached agreement on alterations to the grading rules affecting Douglas fir, West Coast hemlock, Sitka spruce and Western red cedar.

To ensure delivery of hemlock and fir in bright condition, it has been recommended that all select merchantable and higher grades shall be treated with an anti-stain solution when shipped green. Shippers are also being urged to hammer-mark the ends of pieces to distinguish grades of select merchantable, No. 1 merchantable and No. 2 merchantable.

Importers felt, from past experience, that select merchantable Douglas fir was not always a satisfactory grade for staging deals, and an improved grade has been introduced. This particularly covers the size and position of knots.

THE MINISTER OF SUPPLY has made an Order increasing controlled maximum prices of iron and steel products from August 13.

The increases are necessary because of a sharp rise in the prices of imports of iron ore, scrap, pig iron and semi-manufactured steel and recent increases in costs in this country.

The prices now authorized are based on recommendations submitted by the Iron and Steel Corporation of Great Britain, after consultation with the British Iron and Steel Federation, and take account of the savings in capital charges secured by nationalization.

The loss arising from buying finished steel abroad and selling it in this country at home prices has hitherto been borne by the Exchequer. This loss has risen steeply with the sharp rise in world prices and the Government has decided that to avoid an increase in the subsidy, the trading loss, but not the import duty, should now be recovered by an adjustment spread over home controlled prices. This accounts for over 20 per cent, and other imported steel and steel-making materials for approximately 40 per cent, of the overall price increases.

The controlled maximum prices of bolts, nuts, etc., are increased from August 13. The increased prices reflect the increase in the price of steel, under the Iron and Steel Prices (No. 2) Order, 1951, referred to above.

The Iron and Steel Prices (No. 2) Order, 1951, S.I. 1423, and the Bolts, Nuts, etc., Prices (No. 2) Order, 1951, S.I. 1422, are on sale at H.M. Stationery Office.

UNDER AUTHORITY OF THE IRON AND STEEL PRICES ORDER, 1951, operative August 13, 1951, prices for Rainwater and Soil Goods as detailed in Lists Series No. 3100, dated February 1, 1940, of the British Ironfounders' Association (as amended from time to time) are increased.

The prices in these Lists are now subject to 81 per cent at foot of Invoice in place of the 781 per cent which applied as from February 21, 1951, on all despatches on and after August 13, 1951.

The increase applies, as formerly, to both straight lengths and connections, and trade discount and other allowances continue unaltered.

In addition, the Order authorizes

NEW SERIES OF ARTICLES

In a previous series of articles, which created much interest, the acoustics of the Royal Festival Hall were dealt with in relationship to the finishes of the auditorium.

A new series of articles starting on August 30 will deal with the various heating and ventilation systems used in the Royal Festival Hall. The treatment of different types of inlet and extract will be illustrated and the system of ducting and heating behind the surface fittings will be described with diagrams and pictures.

adjustments in the list prices of certain sizes of common H.R. and O.G. gutters. Details of the revised prices for insertion in the appropriate lists may be had on application.

THE FEDERATION OF MASTER BUILDERS has received nearly 200 entries from building trade apprentices and students at technical colleges for the model-making competition which it is organizing in connection with the Building Exhibition at Olympia in November. The entrants are to make a model in any material of the Congregational Church on the Lansbury Site at Poplar which forms part of the Live Architecture Exhibition organized by the Festival of Britain authorities. A panel of judges has been appointed including Mr. C. C. Handiside, A.R.I.B.A., A.A.Dip., architect for the church.

The winning models will be exhibited at the Federation's stand at the Building Exhibition at Olympia from November 14-28.

TEAM SPIRIT, apart from being the title of the House Journal of John Laing and Son, Limited, is something the visitor to any part of that firm's organization is made very aware of.

In a new, and admirably produced publication, effectively bound and entitled "Team Work," there is a foreword by Lord Tedder, Marshal of the Royal Air Force, who refers to "the small family concern growing step by step into a great industrial organization, yet never losing the human touch."

In the introduction J. W. Laing writes, "politically, our future is uncertain. But, looking at the present, what pleasure it gives us to see so many young men coming forward who are determined that the traditions of the past shall not only be continued but that the standard shall be raised ever higher."

On another page of this issue of *The Architect and Building News* the Shoreham Cement Works are an example of the work of the firm. "Team Work" contains illustrations and information about many other examples at home and overseas and even—flashing back to 1944—in the sea. For John Laing contributed ten of the concrete caissons and forty of the pontoons which went towards building the Mulberry Harbour at Arromanches for the Normandy Landings on D-day.

BOULTON & PAUL, Ltd., have secured the Contract for the supply of 95 prefabricated Schools, which will be wood built and timber framed, for the Government of Queensland, Australia. A prototype erected at the Works, was inspected by the Honourable Paul Jerome Hilton, Minister of Housing and Public Works on August 9. Fabrication of the units will begin in a few weeks' time at Norwich.

THE OUTPUT of the building and civil engineering industries in Great Britain last year was valued at £1,307 million, compared with £1,248 million in 1949, says the Annual Report of the Ministry of Works published as a Command Paper by H.M. Stationery Office. ("Annual Report of the Ministry of Works for 1950." (Cmd. 8306) Published by H.M. Stationery Office, price 1s 6d.)

During the year in review 11,340 new or revived undertakings in building and civil engineering industries were registered under D.R. 56 AB. Appendices to the Report give figures showing the "breakdown" according to number of operatives employed by firms of different sizes for the "13 Trades" and the "7 Trades." There is also a Regional "breakdown." Another Appendix shows how the building force was divided between categories of work, and gives figures of unemployment, vacancies and placings.

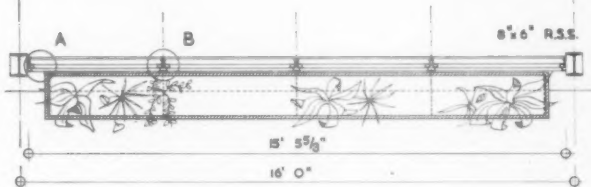
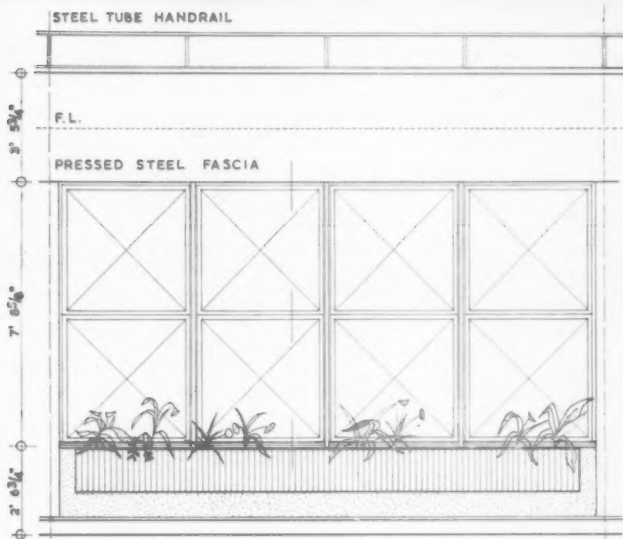
With the exception of a few materials, notably bricks and cement, the report states that the supply of building materials and firmens was sufficient during 1950 to meet building needs at home and to maintain exports at the 1949 level. Although production of bricks increased substantially (total for 1950 was 5,921 million) it was insufficient to meet demands. Shortage of labour was the main limiting factor in increasing production. During the year the Ministry carried out a survey to assess manufacturers' problems and undertook discussions with the industry for increased production. Cement production in 1950 (9,752,000 tons), though the highest on record, was not enough to prevent local shortages. During the year a new cement works came into operation (in Padeswood, Flintshire), and other plants were extended.

Production of other building materials was restricted by shortages of the materials required for their manufacture: for instance plasterboard, metal windows and door frames, asbestos cement goods.

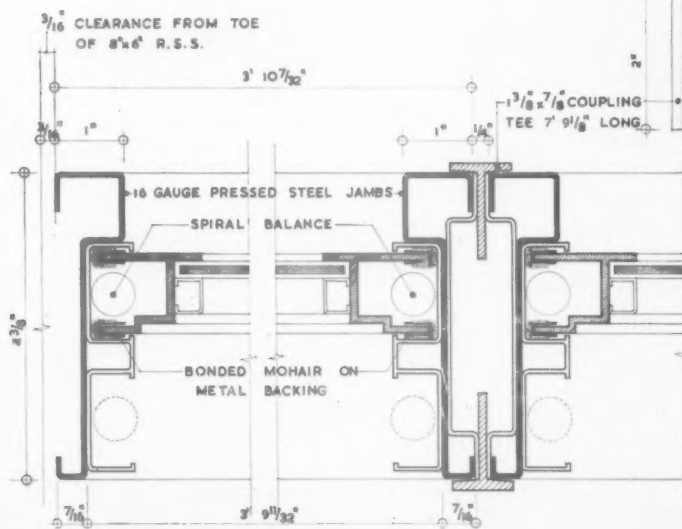
Work on new research and production buildings for the Ministry of Supply and the Department of Scientific and Industrial Research exceeded £11 million during 1950. Two new atomic energy establishments at Capenhurst and Aldermaston were started. Further work was carried out at Harwell and one of the atomic piles at Windscale, Cumberland, was completed.

In London, 1,162,000 sq ft of accommodation used as Government offices was de-requisitioned; 1,430,000 sq ft was released in the Provinces and in Scotland. A further 150,000 sq ft of single-storey offices on the outskirts of London was started in 1950. This programme, for staffs from Central London, should be completed this year and assist in the release of requisitioned premises.

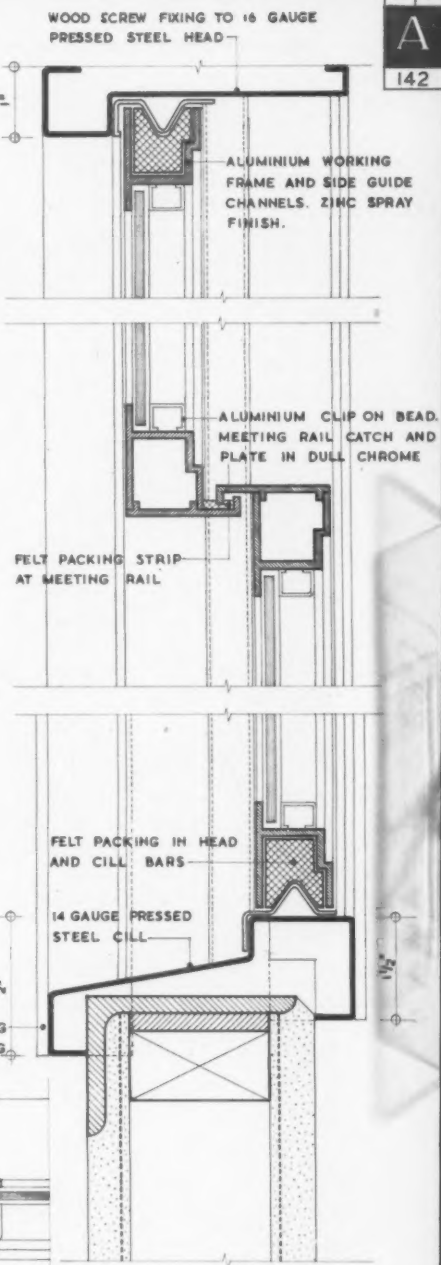
Office buildings erected by private developers and leased to the Ministry ("Lessor Offices") provided over 900,000



PLAN OF TYPICAL BAY SCALE: 1/4" TO ONE FOOT



PLAN AT A AND B SCALE: HALF FULL SIZE



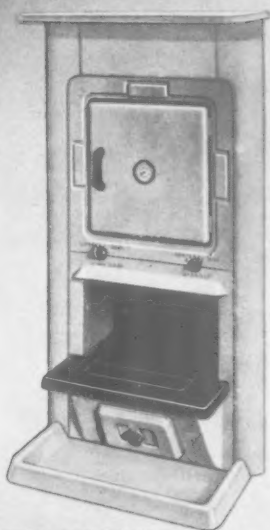
SECTION THRO' SASH WINDOW
SCALE: HALF FULL SIZE



DOUBLE HUNG SASH WINDOWS. REGATTA RESTAURANT
ARCHITECTS: DESIGN RESEARCH UNIT



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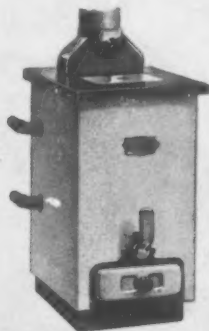
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square feet of office space in London. Another 1,300,000 square feet of such offices in London and 230,000 square feet in the Provinces were under construction at the end of 1950. These will be completed during this year and next. Future buildings will, as far as possible, be erected by the Ministry and the cost of construction met from voted funds.

BRITISH RAILWAYS have ordered 1,000 four-ton steel containers of a new type for conveying ground limestone, dolomite, fluorspar, alumina, cement and similar substances.

The new design is the result of experiments made with a prototype. The container is in the form of a lidded box divided into two equal compartments which can be discharged simultaneously or separately through bottom doors; these doors open by gravity on release of a catch. The lid is designed to operate with the minimum of headroom when open. Opening and closing mechanism of lid and bottom doors is simple to operate. The container is waterproof and is provided with cleats on the sides so that sheets may be fixed during unloading to keep down dust.

A contract for the construction of the containers has been placed with Cravens Railway Carriage & Wagon Co., Ltd., of Sheffield.

THE QUASI-ARC COMPANY LIMITED, Bilston, Staffordshire, announce that arrangements are now in hand with The General Electric Company Limited, Witton, Birmingham, under which The Quasi-Arc Company Limited will be the sole concessionaires throughout the world for the G.E.C. Twin-Arc Metallic Arc Welding process.

The Twin-Arc welding process will be demonstrated on the Quasi-Arc Stand No. 8, Row W, at the Engineering, Marine and Welding Exhibition, at Olympia, in September.

BAKELITE LIMITED announce that Sir James Swinburne, F.R.S., who was Chairman of the Company from its inception until 1948, has resigned his Directorship.

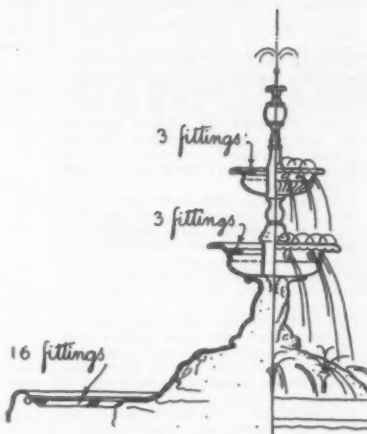
Sir James began his work on the development of phenolic plastics in 1904 when he formed the Fireproof Celluloid Syndicate Limited, which in 1910 was changed to the Darnall Lacquer Company Limited, this company being one of the three companies which were later merged to form Bakelite Limited.

MANY LOCAL AUTHORITY WATER UNDERTAKERS have made it a practice when they are laying a new water main in a street also to lay the parts of communication pipes which lie under the street and themselves to bear the cost of so doing instead of recovering it from the consumers concerned. This practice, in the view of the Minister of Local Government and Planning, has much to commend it, in that it reduces the curbing up and remaking of streets and facilitates the laying of water mains in the verge on one side of the street. The Minister is aware, however, that doubts have been expressed as to the powers of the authorities themselves to bear the cost instead of the consumers, and he proposes to take the first opportunity of putting the matter beyond doubt by a direct statutory provision.



STEINE FOUNTAIN BRIGHTON

First in the world, the installation of under-water colour fluorescent lighting in the Steine fountain at Brighton is designed to give constant colour change. There are three groups of floodlights. Each fitting contains three coloured tubes—pink, blue and green. P.V.C. cable—capable of submersion in water for prolonged periods has been used. The tubes are held in specially sheathed bayonet holders the rest of the lamps being exposed to the water. The fittings are divided into groups of 8 and 8 in the lower pool and 6 (two lots of three) in the upper tiers. Each group is operated by an automatic motor driven dimmer board. The total load is under 4½ Kw.



THE TWO ADDITIONAL MEMBERS of the Iron and Steel Consumers Council, appointed by the Minister of Supply on August 1 are, Sir Harry Railing of the General Electric Company, London, and Mr. R. G. D. Ryder, of Thomas Ryder and Son, Ltd., Bolton.

THE MINISTRY OF MATERIALS announces that misunderstanding has arisen over a statement about zinc made by the Lord Privy Seal in the House of Commons on June 27, 1951 (Hansard, Vol. 489, No. 128, Col. 1416). There was nothing in this statement to suggest that, because other processes should be introduced so as to save zinc used in galvanizing, there will be less need for zinc to be produced in the United Kingdom, and imported from the Commonwealth and other sources. This interpretation has nevertheless been placed on the Minister's statement.

As Mr. Stokes made clear on that occasion, it is his opinion that zinc is likely to continue to be in short supply.

In the immediate future the requirements of defence will be the determining factor and in the longer term demand will be sustained at a high level by progressive industrial development at home and overseas.

The Lord Privy Seal therefore considers it important that the use of alternative materials should be encouraged as far as practicable, and that the research into ways and means of saving zinc in galvanizing and for other purposes should be accelerated. If this could be done it would then be possible to release more zinc for processes in which no substitutes are likely to be available and in consequence the country's zinc resources could be used to the fullest advantage. The demand would still be such that we should want every available ton. The Lord Privy Seal's Department, the Ministry of Materials, is taking action to increase the level of imports as rapidly as possible; but U.K. smelters must continue to be relied on to play their part through the production of steadily increasing quantities of metal.

GOOD, BAD OR INDIFFERENT?

No. 48.—By A. FOREMAN

Easy-clean Hinges

ONE of the annoyances of windows is that they need cleaning; it is quite an expensive item if you pay a window cleaner to do the job and it can be very difficult for the housewife to do the work herself. It is not difficult to design casement windows so that they may be cleaned from inside, and most householders expect this facility, at least on upper floors. If the window units are correctly arranged in relation to one another it should be possible to clean all fixed and top-hung lights by leaning out slightly through an adjacent opening; it will, however, be found that some of the wide, fixed centre lights, whose use has grown more common in recent years, can be almost impossible to reach over the whole surface, thus lights much more than 2ft wide should be avoided. The main problem of cleaning casement windows is, therefore, to reach the outer faces of opening windows; this may be met by the use of "easy-clean" hinges for wood or metal casements or by the use of vertically pivoted types of metal window. Both these methods of hanging sashes provide clearance for one's arm between the casement and the jamb of the frame. Pivoted types of metal windows, are, however, much more costly than the normal "cottage" casements of the B.S.990 type, as the metal sections have to be different.

A very simple and satisfactory "easy-clean" hinge has been adopted for standard metal windows, covered by B.S.990, although the hand space is none too wide; this hinge consists of stout brackets which carry the pivots about 2½in in front of the window frame, so that when the window is opened at 90 deg there is a space about 4½in wide through which to pass the cleaner's arm; this space is just about adequate when windows are set in wood or metal sub-frames, or even on the face of brickwork, but it is a little meagre if windows are set back from the face of the wall and particularly if the reveals are rough-cast as the latter can be painfully rough. Vertically pivoted windows allow more arm space and the outer edge, when open, is brought nearer to the window cleaner; this type has difficulties in that part of the casement moves inwards over the internal window board and also tends to make the hanging of curtains near the windows more troublesome.

For wood casement windows there are a number of types of "easy-clean" hinge available, quite a proportion of which have proved rather unsatisfactory in use as they have not been strong enough to stop the casements from dropping. One very general type is screwed to the top and bottom of the casement and to the rebates of the head and sill so as to be concealed when the window is closed. A modified type, rather stronger but not so neat, is screwed to the face of the casement and to the rebates of the frame. To make a good and substantial job these hinges should be of malleable iron castings with brass or stainless steel pins. Another type is the Parliament hinge which is screwed to the rebate of the jamb; this type can provide adequate clearance for cleaning and is satisfactory if made of specially stout material, such as 10 s.w.g. steel, as they

are liable to receive rough treatment when windows are being cleaned and when open in strong winds.

A difficulty arises with all these hinges if the windows are of types such as the "storm proof" type, as B.S.644 Part 1, in which the casement is lipped over the frame to give extra protection from the weather. The cheapest "easy-clean" hinge for this window is similar to a Parliament hinge but has both flaps bent at right-angles and screwed to the faces of the frame and casement. Many of the ones I have seen have been rather poor and of inadequate strength; I dislike the large amount of metal which is visible from outside but this is hard to overcome if they are to have adequate strength; there have been some ingenious hinges designed to overcome this difficulty by providing a link motion which slides the edge of the casement along the rebates of the frame as the window is opened so that it almost takes up the same position as a pivoted sash in a metal window. Unfortunately, some of these have been spoilt by being too flimsy. On one site, I saw a large number of hinges badly bent even before the windows were glazed and I

should not like to think what they must be like after three years' usage.

The new edition of B.S.644 Part 1 includes an "easy-clean" hinge which appears to have been chosen for its strength, to insure against failure, but it is not very elegant. It has a heavy strap screwed to the face of the casement and a similar plate screwed to the face of the frame. The knuckles and pin together form a solid mass about 2in high and about ½in thick projecting about 2in from the window. There can be no criticism of this on the grounds of strength, but unfortunately I do not think they will look very attractive, although they are likely to be much less noticeable when fixed and painted than on a drawing; it seems to be a question of the choice between two evils and, as long life is the more important factor, I am pleased to see that strength seems to have won.

I have not commented so far on rust-proofing of hinges. This should not need emphasizing, but I doubt if it is always done. The British Standard specifies sherardizing which, taken all round, is probably the most practicable for the purpose.

LEGAL NOTES

The New Streets Act

The New Streets Act, which was passed on July 3 and which comes into operation on October 1 next, has as its main object "the satisfactory construction, lighting, sewerage, furnishing and completion of streets adjacent to new buildings" and there is one particular aspect of it which is of more than passing interest to those engaged in building construction. Thus, where it is proposed to erect a new building of the type which necessitates the prior deposit of plans with the local authority and which is to have a frontage on a private street, no work must be done unless the owner of the land has paid the local authority, or otherwise given security, a sum of money in respect of the cost of the street works, i.e. those for the sewerage, levelling, paving, metalling, flagging, channelling, making good and lighting a street. Any work commenced before payment will render both builder and landowner, on summary conviction, to a fine of £100 although the builder will have a complete defence if he can prove that he had reasonable grounds for believing that the necessary payment had been made, or secured. The proceedings themselves can only be brought by a local authority.

As might be expected, there are a number of exceptions to the above requirement, a knowledge of which is as important as a knowledge of the requirement itself. These are as follows:—

(a) Where the landowner is exempt from contributing to street works by virtue of some provision in the appropriate private street works code.

(b) Where the building to be erected will be situated in the curtilage of, and next door to, an existing building.

(c) Where plans for the building have been deposited with the local authority in accordance with building byelaws, before October 1 next.

(d) Where an agreement has been made by any person with the local authority under Section 146 of the Public Health Act, 1875, providing for the carrying out at the expense of that person of the necessary street works and for securing that on completion of the works the street will become a highway repairable by the inhabitants at large. The agreement in question should be in writing and under seal.

(e) Where, for various reasons, the local authority have exempted the building from the requirement by notice in writing.

(f) Where the building is to be erected on land belonging to the British Transport Commission or any Executive established under the Transport Act, 1947, to a county or borough council, a metropolitan borough or county district, to the Common Council of the City of London, or to a development corporation established under the New Towns Act, 1946.

(g) Where the building is proposed to be erected by a trading or industrial estate as defined by Section 15 of the Distribution of Industry Act, 1945, and the cost is to be paid wholly or mainly by a government department.

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

CONTRACT • NEWS •

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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BERKSHIRE C.C. (a) Two additional permanent classrooms, Wytham Botley County School. (b) County Architect, Wilton House, Parkside Road, Reading. (c) 2gns. (e) Sept. 6.

BERKSHIRE C.C. (a) Huttet Classrooms, Thatcham County Primary School. (b) County Architect, Wilton House, Parkside Road, Reading. (c) 2gns. (e) Aug. 31.

BERKSHIRE AND READING FIRE AUTHORITY. (a) Pair of Firemen's Houses (Traditional Brick), Ray Mill Road West, Maidenhead. (b) County Architect, Wilton House, Parkside Road, Reading. (c) 2gns. (e) Aug. 31.

BIRKHEAD B.C. (a) 36 Houses and site works, Contract 8, Mount Estate. (b) Borough Architect, 1, Mortimer St. (c) 2gns. (e) Sept. 3.

BRIDGE-BLEAN R.C. (a) 68 houses Broad Oak Housing site, Sturry, Nr. Canterbury. (b) Building Surveyor, Council Offices, Old Dover Road, Canterbury. (c) 2gns. (e) Sept.

BRISTOL C.C. (a) Primary School, Headley Park. (b) J. Nelson Meredith, City Architect, Eagle House, Colston Avenue. (c) 2gns. (d) Aug. 23. (e) Sept. 14.

BUCKFASTLEIGH U.C. (a) 8 two-bedroom flats, Glebelands. (b) W. G. Coudry & Son, Palace Avenue, Paignton.

COLNE VALLEY U.C. (a) 30 stone-built houses and flats, Causeway Side, Linthwaite. (b) Architect, N. Heppenstall, 135, Armitage Road, Milsbridge, Huddersfield. (c) 2gns. (d) Aug. 27. (e) Sept. 17.

DENBIGH B.C. (a) 43 houses and two bungalows, Denbigh. (b) Council's Architect, F. C. Roberts, Earl Chambers, Mold. (c) 3gns. (d) Aug. 27. (e) Sept. 25.

EAST SUFFOLK C.C. (a) Lowestoft Special School, Ashley Downs. (b) County Architect, E. J. Symcox, County Hall, Ipswich. (c) 2gns. (e) Sept. 14.

EAST SUFFOLK C.C. (a) Farm Buildings, Capel St. Mary, Ipswich. (b) County Architect, E. J. Symcox, County Hall, Ipswich. (c) 2gns. (e) Sept. 14.

FLINTSHIRE C.C.—COUNTY EDUCATION COMMITTEE. (a) C.P. School, Hope, Nr. Wrexham. (b) County Architect, W. Griffiths, Llwynegryn, Mold. (c) 2gns. (e) Sept. 11.



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HAYES & HARLINGTON U.C. (a) 100 houses, Wood End Park Estate. (b) Engineer and Surveyor, Town Hall, Hayes. (c) 2gns. (e) Aug. 31.

KETTERING B.C. (a) 42 houses, Grange Housing Estate, Stamford Road. (b) Borough Engineer and Surveyor, 3, Gold Street, Kettering. (c) 2gns. (e) Sept. 8.

LEICESTER NO. 2 HOSPITAL MANAGEMENT COMMITTEE. (a) Erection of Maternity Unit, Rutland Memorial Hospital, Oakham. (b) Messrs. Webb and Gray, "Tixall House," St. James's Rd., Dudley. (d) Aug. 25.

LIVERPOOL C.C. (a) 672 dwellings, Kirby Estate, Nr. Liverpool. (b) City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway. (c) 2gns. (e) Sept. 6.

LIVERPOOL REGIONAL HOSPITAL BOARD. (a) Alterations to operating theatre, etc., St. Catherine's Hospital, Birkenhead. (b) Regional Architect, Liverpool Regional Hospital Board, 5th floor, Premier Buildings, 88, Church Street. (c) 2gns. (e) Sept. 5.

LIVERPOOL REGIONAL HOSPITAL BOARD. (a) Conversion of E.N.T. Dept. into X-Ray Room, Mill Road Hospital. (b) Regional Architect, Liverpool Regional Hospital Board, Fifth Floor, Premier Buildings, 88, Church Street. (c) 2gns. (e) Sept. 5.

LIVERPOOL REGIONAL HOSPITAL BOARD. (a) Addition to ward, Sefton General Hospital. (b) Regional Architect, Liverpool Regional Hospital Board, Fifth Floor, Premier Buildings, 88, Church Street. (c) 2gns. (e) Sept. 14.

LONDON-STEPNEY B.C. (a) Structural Repairs, 103, Jamaica Street, and 26, Ewing Street. (b) Chief Technical Officer for War Damage, 191-193, Commercial Road, E.1. (c) 2gns. (e) Aug. 25.

LONDON-WEST HAM B.C. (a) 46 Dwellings, The Gainsborough Road, Manor Road, Corporation Street, Eve Road and Bethell Avenue areas. (b) Borough Architect and Planning Officer, 70, West Ham Lane, E.15. (c) 2gns. (d) Aug. 25.

NEWCASTLE-UPON-TYNE C.C. (a) Four single storey Lock-up shops and 10 single storey Lock-up shops, Blakelaw Housing Estate. (b) City Architect, 18, Cloth Market. (e) Sept. 6.

MIDDLESBROUGH B.C. (a) 8 shops with 6 maisonettes and 2 flats above. (b) Borough Engineer and Surveyor, Municipal Buildings. (c) 2gns. (e) Sept. 10.

NORFOLK EDUCATION COMMITTEE. (a) Prefabricated Concrete Building, North Walsham. (To serve as Branch Library). (b) F. Lincoln Ralphs, Chief Education Officer, Stracey Road, Norwich. (d) Aug. 22.

NORTHERN IRELAND GOVERNMENT. (a) Local Office for M. of L. and National Insurance, Ballyclare, Co. Antrim. (b) Ministry of Finance (Room 103), Law Courts Building, May Street, Belfast. (c) 2gns. (e) Sept. 6.

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N. IRELAND - CARRICKROVADDY, ARMAGH. (a) Primary School. (b) Chartered Quantity Surveyor, Ulster Bank Chambers, 73, May Street, Belfast. (c) 5gns. (e) Aug. 31.

NOTTINGHAM C.C. (a) General Repairs, Castle Museum. (b) R. M. Finch, City Engineer and Surveyor, The Guildhall. (c) 2gns. (e) Sept. 4.

NOTTINGHAM C.C. (a) Repairs and painting, Radford Day Nursery, Laburnum Avenue. Repairs and painting Midwives' Hostels. (b) R. M. Finch, City Engineer and Surveyor, The Guildhall. (c) 2gns each. (e) Sept. 3.

OAKHAM, Rutland. (a) Maternity unit, Rutland Memorial Hospital (Sheffield Regional Hospital Board). (b) Webb and Gray, "Tixall House," St. James's Road, Dudley. (d) Aug. 25.

OXFORDSHIRE C.C. (a) Secondary Modern School, Witney. (b) G. R. Hutton, County Architect, 3, Becket Street, Oxford. (e) Aug. 25.

OXFORDSHIRE C.C. (a) Additional accommodation, Henley C.P. Infants' School, Greys Road, Henley-on-Thames. (b) G. R. Hutton, 3, Becket Street, Oxford. (e) Sept. 5.

PETERLEE DEVELOPMENT CORP. (a) 444 houses, Eden Lane Site, Nr. Horden. (b) A. V. Williams, General Manager, Peterlee Development Corp., Shotton Hall, Castle Eden, Co. Durham. (c) 2gns. (e) Sept. 5.

PRESTON B.C. (a) Branch Library, Ribblesdale. (b) Messrs. Derby, Fazackerley and Pinder, 20, Ribblesdale Place. (c) 2gns. (e) Sept. 12.

ROWLEY REGIS B.C. (a) Sub-structure Work, 32 Houses, Brickhouse Farm Estate. (b) Borough Engineer and Surveyor, Municipal Buildings, Old Hill, Staffs. (c) 3gns. (e) Aug. 27.

RUNCORN U.C. (a) 36 flats, Town Hall Estate. (b) Surveyor, Town Hall. (c) 2gns (e) Sept. 10.

SALOP C.C. (a) Central Ambulance Depot, Shrewsbury. (b) A. G. Chant, County Architect, Column House, London Road, Shrewsbury. (c) 2gns. (e) Oct. 5.

SCOTLAND - CORPORATION OF GLASGOW. (a) 60 flats, Hostel at Liddesdale Road. (b) Director of Housing, 2nd Floor, 20, Trongate, Glasgow, C.1. (c) 2gns. (e) Aug. 31.

SCOTLAND - SUTHERLAND C.C. (a) Helmsdale J.S. School, Helmsdale. (b) Messrs. Baxter, Dunn & Gray, 235, Bath Street, Glasgow. (e) Sept. 10.

SKELTON U.C. (a) 22 houses, Boosbeck. (b) Engineer and Surveyor, Council Offices, Skelton-in-Cleveland. (c) 2gns. (e) Sept. 6.

STONE U.C. (a) 68 houses, Housing Site, Lichfield Road. (b) Council's Architects, Messrs. Edward Forshaw and Greaves, 33, Albion Street, Hanley, Stoke-on-Trent. (c) 3gns.

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WARWICKSHIRE C.C. (a) Maintenance and New Building Works. (b) C. H. Elkins, County Architect, Shire Hall, Warwick. (d) Aug. 27. The list is divided into three sub-sections as follows: Contractors wishing to tender for works costing between (1) £10,000 and £25,000, (2) £25,000 and £50,000, (3) in excess of £50,000. Names may be included in either or all sections. Forward particulars of contracts recently executed. Giving names and addresses of local authorities and/or Architects to whom reference can be made.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BUILDING

READING CORPORATION. (1) Erection of superstructure for Reading Technical College. (3) Griggs and Sons, Ltd., 56, Victoria Street, London, S.W.1. (4) £494,948. Architects, Lanchester and Lodge, 10, Woburn Square, London, W.C.1.

LONDON, W. (1) Large block of offices. (2) Bond Street and Bruton Street. (3) Holland & Hannen and Cubitts, Ltd., 1, Queen Anne's Gate, London, S.W.1. (4) £300,000.

WIGAN CORPORATION. (1) 113 houses, 16 bungalows. (2) Morley Hall. (3) Direct Labour. (4) £159,885.

LAMBETH B.C. (1) 76 dwellings. (2) Beaton's Lane. (3) J. Jarvis and Sons, Ltd., 12, Buckingham Palace Gardens, S.W.1. (4) £157,520.

LEIGH, LANCs. (1) Casualty department. (2) Leigh Infirmary. (3) A. E. Prescott, Ltd., Holden Road, Leigh, Lancs. (4) £37,000.

SEDGLEY U.D.C. (1) 42 houses. (2) Moden Hill. (3) Whittingham, Ltd., Wolverhampton.

SOUTHEAST CORPORATION. (1) 30 flats, 10 shops. (2) Cluny Square. (3) C. S. Higgins and Sons, Hart Road, Thundersley, Essex. (4) £66,100.

EASTBOURNE B.C. (1) 42 "Wates" houses. (2) Chatfield Estate. (3) T. J. Brayton and Son, Ltd., Brighton. (4) £60,762. (1) 14 and 6 houses. (3) A. J. Bessant, Ltd., Eastbourne. (4) £22,214 and £10,443.

LIVERPOOL. (1) Large factory extensions for W. and R. Jacobs and Co. (Liverpool), Ltd. (2) Aintree. (3) J. Jones and Sons, Ltd., Hale Road, Widnes. (4) £120,000.

SHOREDITCH B.C. (1) 60 flats. (2) Pitfield Estate. (3) Tersons, Ltd., 1, Seward Street, E.C.1. (4) £111,968. (1) Block of flats. (2) Britannia Walk. (3) Tersons, Ltd. (4) £186,495. (1) Block of flats. (2) Bracklyn Court. (3) Walter Lawrence and Son, Ltd., Sun Street, E.C.2. (4) £76,890. (1) 24 flats. (2) Shepherdess Walk. (3) H. Richardson and Son, Ltd. (4) £50,858.

LUTON B.C. (1) 256 Trusteel houses. (2) Leagrave No. 2 site. (3) Winton Hayes, Ltd., Grove Road, Biggleswade, Beds. (4) £347,697.

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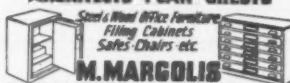
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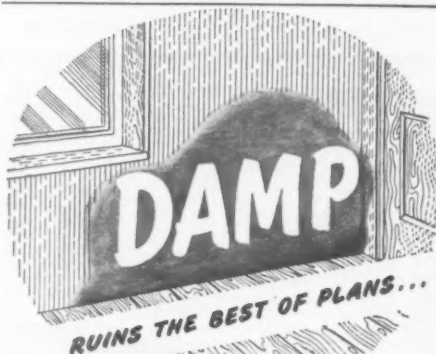
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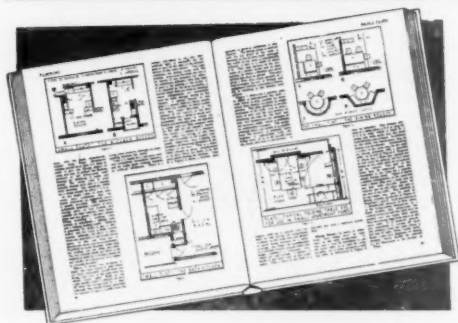
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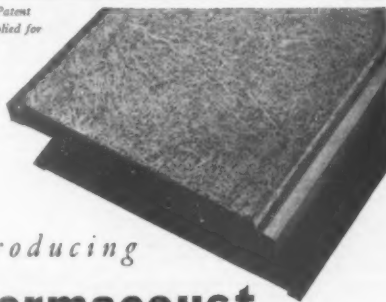
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APPOINTMENTS

LONDON COUNTY COUNCIL.

APPLICATIONS are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £580 basic a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Act, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

All rates of pay up to £600 a year (basic) are at present subject to an addition of ten per cent.

Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes (cottages and multi-story flats) and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). Canvassing disqualified. (816). [1018]

SUDAN GOVERNMENT

THE Public Works Department require THREE ARCHITECTURAL ASSISTANTS, aged 24-36, for service in the Sudan under the Chief Architect, for the preparation of working drawings for general building work.

Candidates should have a sound Architectural Training and experience of general building work and be capable of the preparation of working drawings required.

Appointment will be on Short-Term Contract for an initial period of two years, with or without Bonus as may be agreed.

Salary for Short-Term Contract with bonus ranges from £E593 to £E860 per annum, and for Short-Term Contract without bonus ranges from £E632 to £E917.

Starting rate will be determined according to age, qualifications and experience.

A Cost of Living Allowance is at present payable from £E142 to £E352 per annum according to the number of dependants.

An Outfit allowance of £E40 is payable when the contract is signed in certain circumstances.

No Income Tax is at present payable in the Sudan.

Further information and application form may be obtained on written application from the Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1.

Please mark envelopes "ARCHITECTURAL ASSISTANT" 4/140. [3708]

NEWCASTLE-UNDER-LYME

RURAL DISTRICT COUNCIL.

BALDWIN'S GATE SEWERAGE AND SEWAGE DISPOSAL.

RESIDENT ENGINEER.

THE Council invite applications for the post of RESIDENT ENGINEER in connection with the construction of sewers, rising main, pumping station and sewage disposal works. The work will be executed by contract under the direction of the Council's Consulting Engineer, Mr. A. H. S. Waters, M.Inst.C.E., 25, Temple Row, Birmingham. 2, the contract period being 15 months. The salary will be £12 per week, a proportion of which will be regarded as lodging and subsistence allowance.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, should reach the undersigned not later than Thursday, 30th August, 1951.

A. MOORLEY,
Clerk of the Council.
Public Offices,
Croft Street,
Newcastle, Staffs.
10th August, 1951. [5721]

APPOINTMENTS—contd.

CITY OF WESTMINSTER.

HOUSING DEPARTMENT.

APPLICATIONS are invited for the permanent appointment of ASSISTANT QUANTITY SURVEYOR, Apt. Grade V (£570-£15/20-£620 per annum, plus London "weighting" (maximum £30 p.a.).

Applicants must have experience in preparation of specifications, bills of quantities and approximate estimates, measurements of variations, interim valuation for payments on account and settlement of final accounts. Preference will be given to applicants who have passed the final examination of the Royal Institution of Chartered Surveyors.

The appointment is subject to a satisfactory medical report and to the Council's Standing Orders, General Regulations and Superannuation Scheme. Canvassing will disqualify.

Applications (marked "Assistant Quantity Surveyor"), stating full name, age, qualifications, present and past appointments and experience, and whether related to any member or chief officer of the Council, with copies of two recent testimonials, must be received by Tuesday, 4th September, 1951.

PARKER MORRIS,
Town Clerk.

Westminster City Hall,
Charing Cross Road, London, W.C.2.

15th August, 1951. [5715]

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER & SURVEYOR'S DEPT.

APPOINTMENT OF ARCHITECTURAL STAFF.

APPLICATIONS are invited for the following appointments:—

1. ARCHITECTURAL ASSISTANT, Grade A.P.T.VI. The appointment will, in the first instance, be on the Temporary Establishment with prospects of transfer to the Permanent Establishment.

Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification. Preference will be given to those having a general knowledge and experience of Architectural work in the service of a Local Authority.

2. ARCHITECTURAL ASSISTANT, Grade A.P.T.V. The appointment will be on the Permanent Establishment. Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification and preferably have a general knowledge and experience of Architectural work in the service of a Local Authority.

Both appointments will be terminable by one month's notice on either side and are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Staff," not later than 10 a.m. on Monday, 10th September, 1951.

It will be necessary for the successful candidates to provide their own housing accommodation as the Council is not in a position to assist.

Canvassing, directly or indirectly, will be deemed a disqualification.

(signed) R. S. FORSTER,
Town Clerk.
Town Hall, Dyne Road,
Kilburn, N.W.6.
8th August, 1951. [5703]

APPOINTMENTS—contd.

HAMPSHIRE COUNTY COUNCIL.

APPLICATIONS are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECTS—Grade VI (Salary £645×£20 & £25—£710).

(b) ARCHITECTURAL ASSISTANTS—Grades II, III or IV (£470×£15—£515; £500×£15—£545 or £530×£15—£575) according to experience.

(c) ASSISTANT HEATING ENGINEER—Grade IV (£530×£15—£575).

(d) SENIOR ASSISTANT QUANTITY SURVEYOR—Grade VI (£645×£20 & £25—£710).

(e) QUANTITY SURVEYING ASSISTANT—Grade I (£440×£15—£485).

Candidates for appointment:—

(a) must be Registered Architects, preferably A.R.I.B.A., with experience in the design and construction of public buildings.

(b) should have passed the Intermediate Examination of the R.I.B.A. or its equivalent at one of the recognized Schools of Architecture, and have had suitable experience.

(c) should be Associates of the Institute of Heating and Ventilating Engineers, or possess other suitable examination qualifications, and be accustomed to the design of heating, hot water services and ventilating systems, under supervision, to various types of County Buildings. A knowledge of electrical installations and mechanical equipment of buildings will be considered an advantage.

(d) should be members of the R.I.C.S. (Quantities Section) with good experience in the preparation of estimates and quantities for all types of buildings and the settlement of final accounts for building contracts.

(e) must have had experience in "Working up", checking schedules, and assisting in site measurements.

The appointments are pensionable, and will be subject to satisfactory medical reports.

Appointments (a) and (d) will be terminable by three months' notice on either side, and appointments (b), (c) and (e) will be terminable by one month's notice on either side.

In approved cases, the County Council are prepared to assist newly appointed members of the staff to meet removal and other expenses.

Applications should be made on forms to be obtained from the County Architect, The Castle, Winchester, to whom they should be returned not later than Friday, the 14th September, 1951.

Clerk of the County Council.
G. A. WHEATLEY,

The Castle,
Winchester,
9th August, 1951. [5688]

UNIVERSITY OF CAMBRIDGE.

DEPARTMENT OF ARCHITECTURE.

APPLICATIONS are invited for the post of A UNIVERSITY LECTURER. The duties will include the teaching of Theory of Structures, Building Construction, and their application to Architectural Design. The pensionable stipend is £750 per annum, rising by annual increments of £50 to £1,250.

A candidate must send his application, together with the names of not more than two referees, to the Secretary of the Faculty Board of Fine Arts, 1, Scoopie Terrace, Cambridge, from whom further particulars may also be obtained. Applications must reach Cambridge not later than 1st October, 1951, and should be accompanied by particulars of the candidate's academic career, architectural practice and publications, if any. [5713]

APPOINTMENTS—contd.

HIS MAJESTY'S COLONIAL SERVICE.

APPLICATIONS are invited for the following posts:—

QUANTITY SURVEYORS (2706/60) **NORTHERN RHODESIA.** Three vacancies exist for Quantity Surveyors in Northern Rhodesia in the salary scale £655/£1,320 per annum with an additional cost-of-living allowance; the point of entry being determined by war service and experience. Appointment will be on contract for three years in the first instance. Free passages will be granted to the officer, his wife, and children up to the cost of one adult passage. Quarters, if available, are provided at a low rent.

Candidates, preferably between 28 and 35, must be A.R.I.C.S. (Quantities) or Members of the Chapter of S.A. Quantity Surveyors with considerable experience.

ARCHITECTS (27301/14) **NORTHERN RHODESIA.** Four vacancies exist for Architects in the Public Works Department, Northern Rhodesia, in the salary scale £655/£1,320 per annum, with a cost-of-living allowance of, at present, 12½ per cent of salary. Point of entry to the scale will be determined by war service and experience and appointment is on contract for three years with a gratuity. Free passages to and from the Colony will be granted to the officer, his wife, and children up to the cost of one adult passage. Quarters, if available, will be provided at a low rent. Candidates should be between the ages of 32 and 45, A.R.I.B.A., and should have at least five years' experience of large building schemes, with specialized knowledge of one of the following: Hospitals, Municipal or Government Building, Prisons, Housing, Schools.

Intending candidates should apply in writing to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, S.W.1, giving brief details of their age, qualifications and experience. They should mention this paper and quote the reference number shown against the post for which application is made. [5722]

METROPOLITAN WATER BOARD

APPOINTMENT OF ASSISTANT ARCHITECT

THE METROPOLITAN WATER BOARD invite applications for the position of ASSISTANT ARCHITECT in the Surveyor's department at a commencing salary of £710 per annum.

Candidates should be experienced in the preparation of working and detail drawings, specifications and quantities for houses and offices. The appointment, which will be temporary in the first instance, will be terminable by one month's notice in writing on either side. Applications, stating candidate's age, present position and salary, qualifications, with full particulars of experience, must be delivered to the undersigned, endorsed "Assistant Architect," not later than 14 days after publication of this notice.

Canvassing, directly or indirectly, will be held to be a disqualification and candidates should state in their applications whether to their knowledge they are related to any member of, or the holder of any office under the Board.

W. S. CHEVALIER,

Clerk of the Board.

Offices of the Board,
New River Head,
Rosebery Avenue,
London, E.C.1.

[5704]

THE Board of the School of Planning and Research for Regional Development invites applications for the post of PRINCIPAL. The applicants should be conversant with the principles of practice of Town and Country Planning and be familiar with recent trends in planning education. Qualifications in the economic and sociological fields will be considered equally with technique and design. He should have a broad and constructive outlook and be able to undertake original investigations. He will be expected to undertake work in his particular subject outside his academic duties. Further particulars may be obtained from the Secretary, School of Planning, 34, Gordon Square, London, W.C.1. Closing date for applications 30th September, 1951. [5702]

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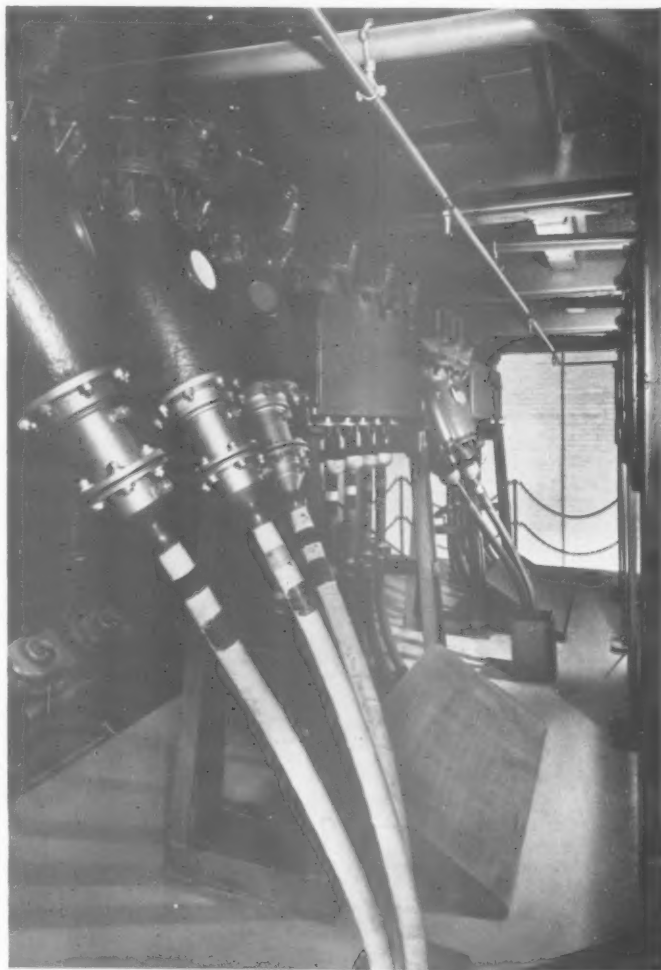
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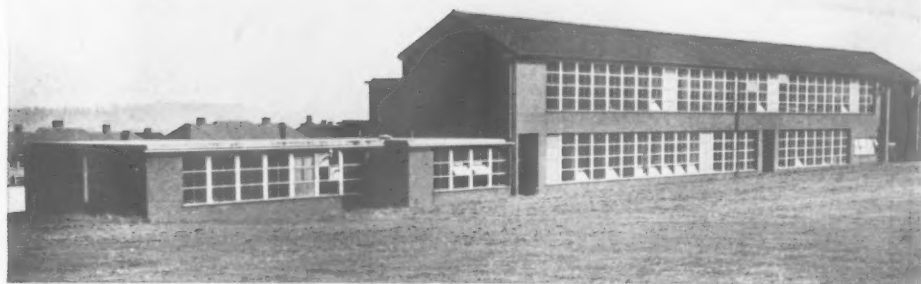
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